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SECOND SESSION, FIFTEENTH PARLIAMENT

OF THE

PROVINCE OF BRITISH COLUMBIA

SECOND SESSION 1921

VOLUME ONE

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VICTORIA, B.C.:
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BRITISH COLUMBIA

PUBLIC ACCOUNTS

FOR THE

FISCAL YEAR ENDED 31ST MARCH, 1921

PERIOD FROM 1ST APRIL, 1920, TO 31ST MARCH, 1921

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

To His Honour WALTER CAMERON NICHOL,

Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Public Accounts of British Columbia for the fiscal year ended 31st March, 1921.

All of which is respectfully submitted.

JOHN HART,

Minister of Finance.

Treasury Department,

Victoria, 20th July, 1921.

VICTORIA, B.C.,

20th July, 1921.

The Honourable John Hart,

Minister of Finance.

SIR,—I have the honour to submit herewith the Public Accounts of the Province of British Columbia for the fiscal year ended 31st March, 1921.

I have the honour to be,

Sir,

Your obedient servant,

A. N. MOUAT, C.A.,

Comptroller-General.

"The form of the accounts should bring to light extravagance and inefficiency, and enable criticism to be usefully applied."

ORDER OF PUBLIC ACCOUNTS.

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THE GOVERNMENT OF THE

BALANCE-SHEET FOR THE

CAPITAL ASSETS.

REALIZABLE OR INCOME PRODUCING:			
DOMINION OF CANADA:			
Capital Account, "Terms of Union"—			
Interest, capitalized at 5 per cent.		$ 583,021 40	
Annual subsidy, „ 5 „		3,600,000 00	
Grant *per capita*, „ 5 „		6,279,680 00	
Lands conveyed, „ 5 „		2,000,000 00	
			$12,462,701 40
INVESTMENT FOR REDEMPTION OF BRITISH COLUMBIA STOCK AND DEBENTURES:			
Sinking Fund, Loans, 1891–3–5–9 and 1902		$ 3,386,813 99	
„ Loan, 1914		913,471 03	
„ „ 1915		1,368,465 90	
„ „ 1916		940,710 45	
„ „ 1917		66,468 01	
„ „ 1918		176,950 94	
„ "Better Housing Act, 1919"		23,382 97	
„ "B.C. Dyking Debentures"		105,169 46	
			6,981,432 75
DYKING DISTRICTS ("DYKING ASSESSMENTS ADJUSTMENT ACT, 1905"):			
Capital Account	$544,464 99		
Interest Account	13,180 52		
Maintenance Account	258,778 33		
		$ 816,423 84	
Less Sinking Funds		116,762 21	
			699,661 63
FORMER INDIAN RESERVATIONS ACQUIRED:			
Kitsilano Reserve, Vancouver		$ 300,000 00	
Songhees Reserve, Victoria		1,039,268 87	
			1,339,268 87
PROPERTIES ACQUIRED UNDER "SOLDIERS' LAND ACT, 1918":			
South Vancouver		$ 21,806 83	
Southern Okanagan		1,774,589 80	
			1,796,396 63
RAILWAY SUBSIDY LANDS REPURCHASED			1,509,114 73
FAIRVIEW WORKS, FAIRVIEW			29,447 26
PROVINCIAL GOVERNMENT LIQUOR VENDORS, CAPITAL A/C.			120,000 00
			$24,938,023 27
BUILDINGS, ROADS, BRIDGES, AND OTHER PROPERTIES:			
PROVINCIAL BUILDINGS AND FURNISHINGS			$11,554,956 06
TRUNK AND MAIN ROADS			6,592,648 84
BRIDGES (INCLUDING NEW WESTMINSTER BRIDGE)			5,102,993 51
WHARVES (INCLUDING PRINCE RUPERT WHARF)			266,032 67
FISH HATCHERY, SETON LAKE, LILLOOET, B.C.			28,700 00
			23,545,331 08
Carried forward			$48,483,354 35

PROVINCE OF BRITISH COLUMBIA.

YEAR ENDED 31ST MARCH, 1921.

CAPITAL LIABILITIES.

BRITISH COLUMBIA STOCK AND DEBENTURES:

LOAN ACT, 1891, 3 PER CENT., DUE 30TH JUNE,					1941	$ 2,139,141 00	
,,	1893, 3	,,	,,	,,	1941	599,945 00	
,,	1895, 3	,,	,,	,,	1941	2,037,000 00	
,,	1899, 3	,,	,,	,,	1941	1,649,000 00	
,,	1902, 3	,,	,,	,,	1941	3,496,850 00	
,,	1914, 4½	,,	,,	1ST APRIL,	1941	7,275,000 00	
,,	1915, 4½	,,	,,	1ST DEC.,	1925	3,130,000 00	
,,	1916, 4½	,,	,,	30TH JUNE,	1926	2,000,000 00	
,,	1916, 5	,,	,,	1ST APRIL,	1928	1,000,000 00	
,,	1916, 5	,,	,,	2ND JULY,	1939	3,000,000 00	
,,	1916, 5	,,	,,	6TH JAN.,	1925	2,450,000 00	
,,	1917, 5	,,	,,	1ST DEC.,	1937	300,000 00	
,,	1917, 5	,,	,,	1ST APRIL,	1938	200,000 00	
,,	1917, 5	,,	,,	1ST NOV.,	1938	100,000 00	
,,	1917, 5	,,	,,	1ST DEC.,	1938	200,000 00	
,,	1917, 5	,,	,,	16TH MAY,	1939	300,000 00	
,,	1918, 5½	,,	,,	5TH MARCH,	1939	3,000,000 00	
,,	1919, 6	,,	,,	21ST MARCH,	1926	2,000,000 00	
,,	1920, 6	,,	,,	25TH OCT.,	1923	1,000,000 00	
"BETTER HOUSING ACT, 1919," 5 PER CENT., DUE 31ST DEC., 1940						1,361,500 00	
"PACIFIC GREAT EASTERN NOTE PAYMENT LOAN ACT, 1920":							
6 per cent., due 1st June, 1925						2,000,000 00	
6 per cent., due 30th June, 1925						2,828,000 00	
"PACIFIC GREAT EASTERN CONSTRUCTION LOAN ACT, 1920":							
6 per cent., due 27th July, 1925						3,000,000 00	
6 per cent., due 1st Oct., 1925						1,000,000 00	
DYKING DEBENTURES, 1897 AND 1899, 3½ PER CENT., DUE 30TH JUNE, 1937						445,000 00	
							$46,511,436 00

MORTGAGE ON BRITISH COLUMBIA BUILDING, LONDON:

MATURING IN QUARTERLY INSTALMENTS TO 24TH JUNE, 1945		235,225 00
		$46,746,661 00

BALANCE:

BEING EXCESS OF CAPITAL ASSETS OVER CAPITAL LIABILITIES		1,736,693 35

NOTE.—In addition to direct liabilities of the Province, the following securities as to both principal and interest have been guaranteed by the Province:—

Guarantees.	Authorized.	Issued.
Canadian Northern Pacific Railway Co. (due 2nd April, 1930)	$47,975,000 00	$40,157,523 90
Pacific Great Eastern Railway Co. (due 15th July, 1942)	20,160,000 00	20,160,000 00
Vancouver and Districts Joint Sewerage and Drainage Board (due 1st March, 1954)	3,233,333 00	3,233,333 00
French's Complex Ore Reduction Co., Ltd. (due 1st June, 1919)	65,000 00	65,000 00
Agricultural Credits Commission (due 1st May, 1941)	1,000,000 00	1,000,000 00
Corporation of the District of South Vancouver ("Corporation of the District of South Vancouver Administration Act")	704,370 12	704,370 12
West Nicomen Dyking District (due 1st May, 1953)	90,000 00	87,000 00
	$73,227,703 12	$65,407,227 02

Carried forward $48,483,354 35

BALANCE-SHEET FOR THE YEAR

CURRENT ASSETS.

Brought forward			$48,483,354 35
CASH AND ADVANCES:			
CASH BALANCES IN TREASURY	$ 1,069 59		
CASH BALANCES IN HANDS OF GOVERNMENT AGENTS AND COLLECTORS	1,717,448 74		
ADVANCES TO DEPARTMENTS	460,187 15		
ADVANCES TO SCHOOL TRUSTEES OF RURAL DIST.	730 00		
ADVANCES TO LAND SETTLEMENT BOARD	2,352,207 87		
ADVANCES TO "CONSERVATION FUND"	1,015,000 00		
ADVANCES TO "INDUSTRIAL DEVELOPMENT FUND"	965,000 00		
ADVANCES TO PROVINCIAL GOVERNMENT LIQUOR VENDORS, CURRENT ACCOUNT	335,411 17		
		$ 6,847,054 52	
ACCOUNTS RECEIVABLE:			
ARREARS, ASSESSED TAXES	$ 1,020,862 00		
ARREARS, PROBATE AND SUCCESSION DUTIES	325,719 02		
ARREARS, TIMBER ROYALTY AND STUMPAGE	390,749 68		
ARREARS, GRAZING FEES	3,255 31		
LOANS UNDER THE "DAIRY ASSOCIATIONS ACT"	2,600 00		
LOANS UNDER THE "AGRICULTURAL ASSOCIATIONS ACT" $191,870 00			
LESS SINKING FUNDS 42,118 37	149,751 63		
LOANS UNDER "BETTER HOUSING ACT, 1919"	1,335,983 78		
LOANS UNDER THE "WATER ACT, 1914"	700 00		
LOANS UNDER THE "CORPORATION OF THE DISTRICT OF SOUTH VANCOUVER AID ACT, 1918"	806,452 40		
LOANS TO MUNICIPALITIES FOR RELIEF OF UNEMPLOYMENT	123,000 00		
STUMPING-POWDER PURCHASE ACCOUNTS	20,775 32		
B.C. LOAN TRUSTEES	632 46		
DOMINION GOVERNMENT, ACCRUED INTEREST, TERMS OF UNION	7,287 76		
VARIOUS MINES (ROYALTIES AND TAXES ON COAL AND COKE)	60,566 58		
SUNDRY DEBTORS	123,565 74		
		4,371,901 68	
LIVE STOCK, STORES, AND EQUIPMENT		944,712 98	
SPECIAL FUNDS:			
LAND REGISTRY ASSURANCE FUND:			
Investment Account $76,310 96			
Bank of Montreal 4,221 50			
	$ 80,532 46		
FOREST PROTECTION FUND	370,937 24		
SCALING FUND	8,216 46		
		459,686 16	
TRUST ACCOUNTS:			
CANADIAN BANK OF COMMERCE:			
Vancouver and Districts Joint Sewerage and Drainage Board	$ 275,102 94		
Canadian Northern Pacific Railway, Terminals A/c.	650,596 72		
Pacific Great Eastern Railway Co.	22 12		
Workmen's Compensation Board	330,781 48		
French's Complex Ore Reduction Co., Ltd.	15 83		
Lands Branch, Trust Account	64,359 07		
Forest Branch, Trust Account	204,933 96		
Water Rights Branch, Trust Account	32,126 80		
Estates of Insane Persons	33,178 03		
Dominion Government Grant *re* Agriculture	12,737 80		
Dominion Government Grant *re* Increased Food Production	568 07		
Grazing Range Improvement Fund	3,135 00		
		1,607,557 82	
			14,230,913 16
Carried forward			$62,714,267 51

ENDED 31ST MARCH, 1921—*Continued.*

CURRENT LIABILITIES.

Brought forward			$48,483,354 35
TEMPORARY LOANS:			
CANADIAN BANK OF COMMERCE, CURRENT A/C.	$ 265,845 00		
TREASURY BILLS:			
"B.C. Loan Act, 1916"	$2,050,000 00		
"B.C. Loan Act, 1917"	850,000 00		
"B.C. Loan Act, 1918"	1,000,000 00		
"B.C. Loan Act, 1919"	1,219,600 00		
"Corporation of the District of South Vancouver Aid Act, 1918"	790,000 00		
"Department of Industries Act, 1919"	915,000 00		
"B.C. Highway Loan Act, 1920"	600,000 00		
"B.C. University Loan Act, 1920"	100,000 00		
	7,524,600 00		
		$ 7,790,445 00	
ACCOUNTS PAYABLE:			
APPROPRIATION ACCOUNTS	$ 2,108,735 85		
OTHER ACCOUNTS	95,423 18		
INTEREST ACCRUED ON PUBLIC DEBT	639,293 90		
		2,843,452 93	
REVENUE RECEIVED IN ADVANCE:			
DOMINION GOVERNMENT, TERMS OF UNION		148,496 00	
SPECIAL FUNDS:			
"CONSERVATION FUND"	$ 61,549 19		
"INDUSTRIAL DEVELOPMENT FUND"	19,088 03		
INTESTATE ESTATES	620,833 05		
SUITORS' FUNDS	139,027 50		
SURPLUS MONEYS FROM TAX SALES	17,319 75		
OFFICIAL GUARDIAN	43,993 44		
RURAL DISTRICTS SCHOOL TAX	6,308 24		
CEMETERY TAX FUND	113 50		
		908,232 70	
TRUST ACCOUNTS:			
VANCOUVER AND DISTRICTS JOINT SEWERAGE AND DRAINAGE BOARD	$ 275,102 94		
CANADIAN NORTHERN PACIFIC RAILWAY CO., TERMINALS ACCOUNT	650,596 72		
PACIFIC GREAT EASTERN RAILWAY CO.	22 12		
WORKMEN'S COMPENSATION BOARD	330,781 48		
FRENCH'S COMPLEX ORE REDUCTION CO., LTD.	15 83		
LANDS BRANCH, TRUST ACCOUNT	64,359 07		
FOREST BRANCH, TRUST ACCOUNT	204,933 96		
WATER RIGHTS BRANCH, TRUST ACCOUNT	32,126 80		
ESTATES OF INSANE PERSONS	33,178 03		
DOMINION GOV'T GRANT *RE* AGRICULTURE	12,737 80		
DOMINION GOV'T GRANT *RE* INCREASED FOOD PRODUCTION	568 07		
GRAZING RANGE IMPROVEMENT FUND	3,135 00		
		1,607,557 82	
		$13,298,184 45	
BALANCE:			
BEING EXCESS OF CURRENT ASSETS OVER CURRENT LIABILITIES		932,728 71	
			$14,230,913 16
Carried forward			$62,714,267 51

BALANCE-SHEET FOR THE YEAR

DEFERRED ASSETS.

Brought forward			$62,714,267 51
PACIFIC GREAT EASTERN RAILWAY CO.:			
Interest on Guaranteed Bonds	$4,275,550 19		
Loans and Interest:			
"B.C. Loan Act, 1916"	6,871,352 09		
"P.G.E. Construction Loan Act, 1920"	4,102,785 26		
"P.G.E. Note Guarantee Act, 1919"	182,162 24		
"P.G.E. Note Payment Loan Act, 1920"	4,977,769 11		
Special Warrant No. 36, 1921	750,000 00		
		$21,159,618 89	
BANK OF VANCOUVER (In Liquidation), Special Deposit		100,086 37	
			21,259,705 26
			$83,973,972 77

ENDED 31ST MARCH, 1921—*Continued.*

DEFERRED LIABILITIES.

Brought forward		$62,714,267 51
CURRENT REVENUE—INTEREST (MISCELLANEOUS):		
Interest on Sundry Loans to P.G.E. Railway	$ 555,352 81	
	$ 555,352 81	
BALANCE:		
Being excess of Book Values of Deferred Assets over Deferred Liabilities, the ultimate realization of which cannot be determined at this date	20,704,352 45	21,259,705 26
		$83,973,972 77

I CERTIFY THAT the foregoing Balance-sheet is in agreement with the books of the Government of the Province of British Columbia as at 31st March, 1921.

The Amount at which the "Arrears of Assessed Taxes" appear in the Balance-sheet under Current Assets represents the totals shown by the Assessment Rolls, less deductions for cancellation of taxes due to the operation of the "Soldiers' Homestead Act," and other items which may prove to be uncollectable.

A. N. MOUAT, C.A.,
Comptroller-General.

Victoria, B.C.,
20th July, 1921.

PROVINCE OF BRITISH COLUMBIA.

CONSOLIDATED SURPLUS ACCOUNT.

DR.					CR.
1921 March 31st	To Defalcations:		1920 April 1st	By Balance	$23,407,291 45
	F. H. Bacon, Golden	$ 120 43	1921 March 31st	Increases:	
	J. G. Cook, Vancouver	617 58		Inventories	8,157 64
	Pat Powers, Vancouver	4 00		Arrears, Timber Royalty and Stumpage	107,854 21
	Lorne Campbell, Vancouver	44 39		Arrears, Grazing Fees	3,255 31
	F. Burnett, Jr., Vancouver	4 74		Current Revenue for fiscal year ended 31st March, 1921	15,219,264 32
	Advances written off:				
	J. W. McFarlane, Vancouver	3 98			
	N. J. Webster, Vancouver	7 25			
	J. E. Mathews, Vancouver	16 00			
	H. Andrew, Anyox	7 29			
	Decreases:				
	Arrears, Probate and Succession Duties	121,103 41			
	Arrears, Assessed Taxes	13,188 00			
	Current Expenditure for fiscal year ended 31st March, 1921	15,236,931 35			
		$15,372,048 42			
	Balance: being excess of Assets over Liabilities	23,373,774 51			
		$38,745,822 93			$38,745,822 93

PROVINCE OF BRITISH COLUMBIA.

SUMMARIZED COMPARATIVE STATEMENT OF ESTIMATED AND ACTUAL REVENUE AND EXPENDITURE FOR THE FISCAL YEAR ENDED 31st MARCH, 1921.

Estimated.		Actual.
	REVENUE.	
	CURRENT ACCOUNT:	
$ 45,000 00	Department of Agriculture	$ 39,167 68
1,552,500 00	„ the Attorney-General	1,793,203 16
45,500 00	„ Education	35,561 13
7,689,715 13	„ Finance	8,631,827 52
36,000 00	„ Fisheries	35,326 05
30,000 00	„ Labour	23,102 30
4,009,000 00	„ Lands	3,965,140 21
2,000 00	Legislation (Private Bills Fees)	2,655 00
162,000 00	Department of Mines	170,707 26
306,630 00	„ the Provincial Secretary	398,263 08
61,900 00	„ Public Works	73,728 38
38,000 00	„ Railways	50,582 55
$13,978,245 13	Total Revenue	$15,219,264 32
	EXPENDITURE.	
	CURRENT ACCOUNT:	
$ 1,838,378 08	Public Debt	$ 2,222,139 12
109,170 00	Legislation	124,768 27
13,880 00	Premier's Office	12,633 59
342,736 00	Department of Agriculture	332,866 71
1,183,720 00	„ the Attorney-General	1,564,654 87
2,864,613 00	„ Education	3,076,944 35
957,679 00	„ Finance	828,928 55
18,090 00	„ Fisheries	15,672 50
27,040 00	„ Industries	16,476 16
97,600 00	„ Labour	175,898 24
1,324,395 00	„ Lands	1,307,951 14
375,201 38	„ Mines	299,583 46
2,013,086 48	„ the Provincial Secretary	2,216,013 60
2,745,223 00	„ Public Works	2,897,588 71
49,900 00	„ Railways	144,812 08
$13,960,711 94	Total Current Account	$15,236,931 35
3,449,961 36	CAPITAL ACCOUNT (charged to Income):	4,389,749 60
$17,410,673 30	Total Expenditure (charged to Income)	$19,626,680 95

PROVINCE OF BRITISH COLUMBIA.

DETAILS OF REVENUE FOR THE FISCAL YEAR ENDED 31ST MARCH, 1921.

ESTIMATED.	SERVICE.	RECEIVED.	
	CURRENT ACCOUNT.		
	DEPARTMENT OF AGRICULTURE.		
$ 22,000 00	Horticultural Inspection Fees and Licences	$ 28,904 93	
23,000 00	Seed-grain Advances Refunds	1,620 21	
.....	Miscellaneous Receipts	8,552 54	
$ 45,000 00	Total	.....	$ 39,167 68
	DEPARTMENT OF THE ATTORNEY-GENERAL.		
$ 45,000 00	Court Fees and Fines	$ 75,181 32	
1,500 00	Dog Licences	1,382 00	
75,000 00	Fur Licences	3,225 00	
120,000 00	Game Licences	134,160 84	
80,000 00	"Insurance Act"—Licences, Taxes, and Fees	95,621 77	
55,000 00	Joint-stock Companies, etc.—Registration Fees	88,979 19	
10,000 00	Keep of Prisoners—Reimbursement	19,568 80	
350,000 00	Land Registry Fees	412,575 06	
75,000 00	Law Stamps	73,591 73	
650,000 00	"Motor-traffic Regulation Act"—Fees	582,082 24	
15,000 00	"Moving Pictures Act"—Fees	16,671 00	
25,000 00	"Prohibition Act"—Profit on Liquor sold	222,526 80	
25,000 00	Sheriffs' Fees	19,254 78	
21,000 00	Trade Licences	29,481 25	
5,000 00	Miscellaneous Receipts	18,901 38	
$ 1,552,500 00	Total	.....	1,793,203 16
	DEPARTMENT OF EDUCATION.		
$ 2,500 00	Teachers' Examinations and Certificates	$ 4,115 55	
1,000 00	Text-books sold	1,614 72	
42,000 00	Technical Schools (Dominion Grant)	29,133 86	
.....	Miscellaneous Receipts	697 00	
$ 45,500 00	Total	.....	35,561 13
	DEPARTMENT OF FINANCE.		
	Dominion of Canada:		
$ 29,151 06	Annual Interest	$ 29,151 06	
180,000 00	" Subsidy	180,000 00	
313,984 00	" Grant *per capita*	313,984 00	
100,000 00	" Grant for Lands conveyed	100,000 00	
$ 623,135 06		$ 623,135 06	
280,000 00	Amusements Tickets Tax	346,879 26	
185,000 00	Coal and Coke Tax	216,430 73	
2,000,000 00	Income Tax	2,005,973 09	
	Interest:		
19,080 07	"Dyking Assessments Adjustment Act"	19,080 07	
260,000 00	Sinking Fund Investments	220,295 31	
450,000 00	Miscellaneous	380,179 20	
	Land Taxes:		
1,115,000 00	Real Property	1,046,343 30	
980,000 00	Wild Land, Coal and Timber Lands	861,811 72	
150,000 00	Mineral Tax	119,342 00	
800,000 00	Personal Property Tax	909,603 13	
50,000 00	Poll Tax	262,580 00	
75,000 00	Probate Fees	64,527 36	
	Rents:		
37,800 00	B.C. House, London, England	41,075 97	
200 00	Miscellaneous Rents	261 80	
5,000 00	Revenue Service Refunds	9,303 16	
175,000 00	Rural District School Taxes	213,339 93	
325,000 00	Succession Duties	342,259 22	
50,000 00	Unworked Crown-granted Mineral Claims—Taxes	46,892 72	
53,500 00	Miscellaneous Receipts	902,514 49	
44,000 00	Trust Deposits reverted to Crown, Intestate, 1897 to 1907	.....	
12,000 00	Trust Deposits reverted to Crown, Suitors' Funds, 1897 to 1907	.....	
$ 7,689,715 13	Total	.....	8,631,827 52
	Carried forward	.....	$10,499,759 49

DETAILS OF REVENUE FOR THE FISCAL YEAR ENDED 31ST MARCH, 1921—*Continued.*

ESTIMATED.	SERVICE.	RECEIVED.	
	CURRENT ACCOUNT—*Continued.*		
	Brought forward	.....	$10,499,759 49
	DEPARTMENT OF FISHERIES.		
$ 36,000 00	Fishing and Cannery Licences, etc.	.....	35,326 05
	DEPARTMENT OF LABOUR.		
$ 30,000 00	Dominion of Canada, Subvention, etc.	.....	23,102 30
	DEPARTMENT OF LANDS.		
$ 19,000 00	Grazing Rentals, Leases, and Fees	$ 15,944 67	
65,000 00	Land Revenues—Sundry	131,594 44	
150,000 00	Land Sales	391,448 66	
10,000 00	Survey Fees and Sale of Maps	24,071 18	
65,000 00	Timber Leases	78,698 73	
2,200,000 00	Timber Licences	1,929,542 17	
350,000 00	Timber Sales	290,236 85	
1,075,000 00	Timber Royalties	981,557 80	
60,000 00	Water Rentals and Recording Fees	97,269 66	
15,000 00	Miscellaneous Receipts	24,776 65	
$ 4,009,000 00	Total	.....	3,965,140 21
	LEGISLATION.		
$ 2,000 00	Private Bills Fees	.....	2,655 00
	DEPARTMENT OF MINES.		
$ 1,000 00	Bureau of Mines	$ 1,146 25	
60,000 00	Free Miners' Certificates	63,964 10	
1,000 00	Miners' Examinations and Certificates	1,324 00	
100,000 00	Mining Receipts, General	104,272 91	
$ 162,000 00	Total	.....	170,707 26
	DEPARTMENT OF THE PROVINCIAL SECRETARY.		
$ 15,000 00	Colony Farm	$ 8,422 10	
14,480 00	Dominion Grant, Venereal Disease	14,628 19	
175,000 00	King's Printer	239,824 45	
14,000 00	Marriage Licences	22,725 00	
80,000 00	Mental Hospitals	88,352 15	
3,500 00	Notaries Public and Commissioners' Fees	3,720 00	
1,300 00	Provincial Home, Kamloops	11,949 93	
3,000 00	Vital Statistics, etc.	5,408 21	
350 00	Miscellaneous Receipts	3,233 05	
$ 306,630 00	Total	.....	398,263 08
	DEPARTMENT OF PUBLIC WORKS.		
$ 27,000 00	Boiler Inspections and Examination Fees	$ 38,213 54	
5,500 00	Electrical Energy Inspection	2,379 50	
20,000 00	Ferry Tolls	16,119 25	
5,000 00	Government Property sold	2,624 40	
4,000 00	Wharfage and Dock Dues	3,266 30	
400 00	Miscellaneous Receipts	11,125 39	
$ 61,900 00	Total	.....	73,728 38
	DEPARTMENT OF RAILWAYS.		
$ 36,000 00	New Westminster Bridge—Tolls	$ 41,152 59	
2,000 00	Miscellaneous Receipts	9,429 96	
$ 38,000 00	Total	.....	50,582 55
$13,978,245 13	Grand total	.....	$15,219,264 32

APPROPRIATION AND EXPENDITURE

SUMMARY SHOWING AMOUNTS APPROPRIATED, EXPENDED, UNEXPENDED, AND OVEREXPENDED FOR THE FISCAL YEAR ENDED 31ST MARCH, 1921.

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	CURRENT ACCOUNT.				
1	PUBLIC DEBT. Page A 1 Main Estimates ..... $1,838,378 08 Supplementary Estimates .... 56,000 00 Statutory 400,323 49	$ 2,294,701 57	$ 2,222,139 12	$ 72,562 45	.....
2	LEGISLATION. Pages A 2-3 Main Estimates ..... $ 109,170 00 Supplementary Estimates .... 40 00 Statutory 19,240 00	$ 128,450 00	$ 124,768 27	$ 3,681 73	.....
3	PREMIER'S OFFICE. Page A 3 Main Estimates	$ 13,880 00	$ 12,633 59	$ 1,216 41	.....
	DEPARTMENT OF AGRICULTURE.				
4	MINISTER'S OFFICE: Page A 3 Main Estimates ..... $ 11,380 00 Statutory 250 00	$ 11,630 00	$ 11,245 00	$ 385 00	.....
5	GENERAL OFFICE: Pages A 4-5 Main Estimates ..... $ 40,458 00 Supplementary Estimates .. 500 00 Special Warrant No. 12 ... 180 00	41,138 00	39,899 51	1,238 49	.....
6	HORTICULTURAL BRANCH: Page A 5 Main Estimates ..... $ 25,196 00 Supplementary Estimates ... 4,000 00 Special Warrant No. 12 ... 564 00	29,760 00	25,420 92	4,339 08	.....
7	INSPECTION AND FUMIGATION OF IMPORTED FRUIT, NURSERY STOCK, ETC: Pages A 5-6 Main Estimates	19,460 00	19,378 26	81 74	.....
8	CONTROL OF FRUIT PESTS, DISEASES, ETC.: Pages A 6-7 Main Estimates	14,000 00	10,914 00	3,086 00	.....
9	ENTOMOLOGY AND PLANT PATHOLOGY: Page A 7 Main Estimates	5,780 00	3,605 13	2,174 87	.....
10	PRAIRIE MARKETS COMMISSIONER: Pages A 7-8 Main Estimates	10,720 00	8,335 55	2,384 45	.....
11	COAST MARKETS COMMISSIONER: Page A 8 Main Estimates	16,340 00	8,468 52	7,871 48	.....
12	LIVE STOCK BRANCH: Pages A 8-9 Main Estimates ..... $ 60,172 00 Supplementary Estimates ... 3,000 00 Special Warrant No. 12 ... 2,000 00	65,172 00	56,647 07	8,524 93	.....
13	STATISTICS: Page A 9 Main Estimates	4,720 00	3,685 00	1,035 00	.....
14	AGRICULTURAL AND HORTICULTURAL INSTRUCTORS AND AGRICULTURAL REPRESENTATIVES, ETC.: Pages A 9-10 Main Estimates ..... $ 25,960 00 Special Warrant No. 12 .... 360 00	26,320 00	21,976 99	4,343 01	.....
15	TUBERCULAR CATTLE, COMPENSATION, ETC.: Pages A 10-12 Main Estimates ..... $ 30,000 00 Supplementary Estimates ... 7,500 00	37,500 00	37,598 51	.....	$ 98 51
	Carried forward	$ 282,540 00	$ 247,174 46	$ 35,464 05	$ 98 51

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 282,540 00	$ 247,174 46	$ 35,464 05	$ 98 51
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF AGRICULTURE—*Continued.*				
16	AUTOMOBILES AND ACCESSORIES, ETC.: Page A 12 Main Estimates	6,000 00	5,774 39	225 61	.....
17	AGRICULTURAL FAIRS, ETC.: Pages A 12–13 Main Estimates .....$ 35,000 00 Special Warrant No. 26 ... 6,000 00	41,000 00	40,898 74	101 26	.....
18	FARMERS' INSTITUTES, ETC.: Pages A 13–14 Main Estimates .....$ 9,000 00 Supplementary Estimates ... 2,000 00	11,000 00	11,017 22	.....	17 22
19	WOMEN'S INSTITUTES: Pages A 14–15 Main Estimates .....$ 7,000 00 Supplementary Estimates ... 500 00	7,500 00	7,446 83	53 17	.....
20	B.C. BEE-KEEPERS' ASSOCIATION: Page A 16 Main Estimates	500 00	500 00	.....	.....
21	B.C. DAIRYMEN'S ASSOCIATION: Page A 16 Main Estimates	2,500 00	2,500 00	.....	.....
22	B.C. ENTOMOLOGICAL SOCIETY: Page A 16 Main Estimates	250 00	250 00	.....	.....
23	B.C. FRUIT-GROWERS' ASSOCIATION: Page A 16 Main Estimates	3,000 00	3,000 00	.....	.....
24	B.C. GOAT-BREEDERS' ASSOCIATION: Page A 16 Main Estimates	750 00	750 00	.....	.....
25	B.C. POULTRY ASSOCIATION: Page A 16 Main Estimates	1,500 00	1,500 00	.....	.....
26	B.C. STOCK-BREEDERS' ASSOCIATION: Page A 16 Main Estimates	2,500 00	2,500 00	.....	.....
27	B.C. WOOL-GROWERS' ASSOCIATION: Page A 16 Main Estimates	750 00	750 00	.....	.....
28	B.C. SEED-GROWERS' ASSOCIATION: Page A 16 Main Estimates	2,500 00	2,500 00	.....	.....
29	BOARD OF AGRICULTURE: Page A 16 Main Estimates	300 00	.....	300 00	.....
30	DEPARTMENTAL EXHIBITS: Page A 16 Main Estimates	3,000 00	1,984 43	1,015 57	.....
31	COMPENSATION RE FOUL-BROOD IN BEES: Pages A 16–17 Main Estimates .....$ 500 00 Special Warrant No. 26 ... 250 00	750 00	720 15	29 85	.....
32	CONTROL OF NOXIOUS WEEDS: Page A 17 Main Estimates	1,000 00	164 59	835 41	.....
33	GRANTS TO B.C. STUDENTS: Page A 17 Main Estimates	1,000 00	550 00	450 00	.....
34	INCIDENTALS AND CONTINGENCIES: Page A 17 Main Estimates	1,500 00	1,057 00	443 00	.....
	STATUTORY: Page A 17 "Pound District Act Amendment Act, 1918," Sec. 2	235 15	235 15	.....	.....
	SPECIAL WARRANT: No. 25. *Re* compensation for fruit destroyed	1,593 75	1,593 75	.....	.....
		$ 371,668 90	$ 332,866 71	$ 38,917 92	$ 115 73

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF THE ATTORNEY-GENERAL.				
35	ATTORNEY-GENERAL'S OFFICE: Page A 17 Main Estimates .....$ 11,310 00 Supplementary Estimates ... 1,000 00	$ 12,310 00	$ 12,414 95	.....	$ 104 95
36	GENERAL OFFICE: Page A 18 Main Estimates	26,040 00	25,226 29	813 71	.....
37	JOINT-STOCK COMPANIES AND INSURANCE BRANCH: Pages A 18-19 Main Estimates .....$ 19,005 00 Special Warrants Nos. 10, 30 1,650 00	20,655 00	19,582 91	1,072 09	.....
38	MUNICIPAL BRANCH: Page A 19 Main Estimates .....$ 6,740 00 Special Warrant No. 27 ... 300 00	7,040 00	7,085 35	.....	45 35
39	CENSOR OF MOVING PICTURES: Pages A 19-20 Main Estimates .....$ 15,372 00 Special Warrant No. 29 ... 400 00	15,772 00	14,057 86	1,714 14	.....
40	ADMINISTRATION OF "PROHIBITION ACT": Pages A 20-21 Main Estimates .....$ 19,180 00 Supplementary Estimates ... 20,000 00 Special Warrants Nos. 2, 20 10,280 00	49,460 00	48,456 70	1,003 30	.....
41	SHERIFF'S OFFICE, VANCOUVER: Pages A 21-22 Main Estimates .....$ 10,484 00 Supplementary Estimates ... 750 00 Special Warrant No. 41 ... 1,600 00	12,834 00	12,759 27	74 73	.....
42	SHERIFF'S OFFICE, VICTORIA: Page A 22 Main Estimates	8,762 00	7,826 30	935 70	.....
43	SUNDRY SHERIFFS: Pages A 22-23 Main Estimates	9,000 00	6,362 96	2,637 04	.....
44	OFFICIAL GUARDIAN, VANCOUVER: Page A 23 Main Estimates	2,840 00	2,702 75	137 25	.....
45	LEGAL OFFICES BRANCH: Pages A 23-24 Main Estimates	7,360 00	6,602 44	757 56	.....
	Land Registry Offices.				
46	KAMLOOPS: Page A 24 Main Estimates .....$ 34,446 00 Supplementary Estimates ... 500 00 Special Warrants Nos. 20, 42 1,900 00	36,846 00	34,440 28	2,405 72	.....
47	NELSON: Page A 25 Main Estimates .....$ 18,578 00 Supplementary Estimates ... 750 00 Special Warrant No. 46 ... 1,000 00	20,328 00	17,509 34	2,818 66	.....
48	NEW WESTMINSTER: Pages A 25-26 Main Estimates .....$ 42,948 00 Supplementary Estimates ... 500 00 Special Warrant No. 20 ... 1,500 00	44,948 00	42,545 82	2,402 18	.....
49	PRINCE RUPERT: Page A 26 Main Estimates	8,240 00	7,147 77	1,092 23	.....
50	VANCOUVER: Pages A 26-27 Main Estimates .....$ 66,760 00 Supplementary Estimates ... 2,500 00	69,260 00	59,404 21	9,855 79	.....
51	VICTORIA: Pages A 27-28 Main Estimates .....$ 51,878 00 Supplementary Estimates ... 1,350 00 Special Warrant No. 10 ... 390 00	53,618 00	47,047 51	6,570 49	.....
	Supreme and County Courts.				
52	CHILLIWACK: Page A 28 Main Estimates .....$ 1,430 00 Special Warrant No. 31 ... 750 00	2,180 00	1,838 89	341 11	.....
	Carried forward	$ 407,493 00	$ 373,011 60	$ 34,631 70	$ 150 30

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 407,493 00	$ 373,011 60	$ 34,631 70	$ 150 30
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*				
	Supreme and County Courts—Continued.				
53	LADYSMITH: Pages A 28–29 Main Estimates .....$ 445 00 Supplementary Estimates ... 25 00	470 00	476 70	.....	6 70
54	NELSON: Page A 29 Main Estimates .....$ 2,445 00 Special Warrant No. 22 ... 90 00	2,535 00	2,544 29	.....	9 29
55	NEW WESTMINSTER: Page A 29 Main Estimates .....$ 6,902 00 Supplementary Estimates ... 300 00	7,202 00	7,167 93	34 07	.....
56	PRINCE RUPERT: Pages A 29–30 Main Estimates	2,620 00	2,563 74	56 26	.....
57	VANCOUVER: Page A 30 Main Estimates .....$ 33,192 00 Supplementary Estimates ... 750 00 Special Warrants Nos. 10, 24 1,335 00	35,277 00	33,133 40	2,143 60	.....
58	VICTORIA: Pages A 30–32 Main Estimates .....$ 26,176 00 Supplementary Estimates ... 1,375 00 Special Warrants Nos. 1, 20, 30 2,316 00	29,867 00	30,365 25	.....	498 25
59	OFFICIAL STENOGRAPHERS: Page A 32 Main Estimates	6,588 00	6,126 51	461 49	.....
60	PROVINCIAL POLICE: Pages A 32–58 Main Estimates .....$ 361,900 00 Special Warrant No. 50 ... 50,000 00	411,900 00	434,971 06	.....	23,071 06
	County Gaols.				
61	NELSON: Pages A 58–59 Main Estimates	10,745 00	10,610 89	134 11	.....
62	OAKALLA PRISON FARM: Pages A 59–62 Main Estimates	74,835 00	74,963 53	.....	128 53
	Industrial Schools.				
63	BOYS' SCHOOL: Pages A 61–63 Main Estimates	43,204 00	40,394 46	2,809 54	.....
64	GIRLS' SCHOOL: Pages A 63–65 Main Estimates .....$ 27,975 00 Supplementary Estimates ... 2,000 00	29,975 00	31,503 95	.....	1,528 95
65	"INFANTS ACT" AND REFUGE HOMES: Page A 66 Main Estimates	38,960 00	33,750 85	5,209 15	.....
66	PUBLIC UTILITIES COMMISSION: Page A 66 Main Estimates	24,360 00	8,119 77	16,240 23	.....
67	SUMMONING AND PAYING WITNESSES: Pages A 66–67 Main Estimates	25,000 00	20,477 42	4,522 58	.....
68	GRAND AND PETIT JURORS: Page A 67 Main Estimates	30,000 00	15,852 90	14,147 10	.....
69	PROSECUTIONS AND INTERPRETERS: Pages A 67–68 Main Estimates	22,500 00	20,258 94	2,241 06	.....
70	EXPENSES OF INQUESTS: Pages A 68–71 Main Estimates	6,000 00	6,101 87	.....	101 87
71	REWARDS: Page A 71 Main Estimates	2,000 00	400 00	1,600 00	.....
72	CONSTITUTIONAL LITIGATION AND GENERAL LAW COSTS: Page A 71 Main Estimates .....$ 10,000 00 Supplementary Estimates ... 11,500 00	21,500 00	14,361 20	7,138 80	.....
	Carried forward	$ 1,233,031 00	$ 1,167,156 26	$ 91,369 69	$25,494 95

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 1,233,031 00	$ 1,167,156 26	$ 91,369 69	$25,494 95
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*				
73	MOTOR-TRAFFIC REGULATION: Pages A 71–72 Main Estimates .....$ 9,500 00 Special Warrants Nos. 16, 44 15,000 00	24,500 00	24,376 14	123 86	.....
74	GAME PROTECTION: Pages A 72–74 Main Estimates	40,000 00	44,776 85	.....	4,776 85
75	SPECIAL SURVEYS: Page A 74 Main Estimates	2,500 00	2,139 45	360 55	.....
76	STIPENDIARY MAGISTRATES: Page A 74 Main Estimates	4,000 00	2,349 92	1,650 08	.....
77	INCIDENTALS AND CONTINGENCIES: Page A 74 Main Estimates	10,000 00	7,494 69	2,505 31	.....
78	PROMOTION OF UNIFORMITY OF PROVINCIAL LEGISLATION IN CANADA: Page A 75 Main Estimates	1,500 00	915 71	584 29	.....
	STATUTORY: Pages A 75–76				
	"Moving Pictures Act Amendment Act, 1920"	30,709 82	30,709 82	.....	.....
	"Revenue Act," R.S.B.C. 1911, Sec. 53	55 00	55 00	.....	.....
	"Nelson and Fort Sheppard Railway Lands Definition Act, 1918"	112 04	112 04	.....	.....
	"Sandon Receivership Cancellation Act, 1919"	114 00	114 00	.....	.....
	"Mothers' Pensions Act, 1920"	284,454 99	284,454 99	.....	.....
		$ 1,630,976 85	$ 1,564,654 87	$ 96,593 78	$30,271 80
	DEPARTMENT OF EDUCATION.				
79	GENERAL OFFICE: Pages A 76–77 Main Estimates .....$ 25,342 00 Supplementary Estimates ... 2,000 00	$ 27,342 00	$ 24,362 36	$ 2,979 64	.....
80	FREE TEXT-BOOK BRANCH: Pages A 77–78 Main Estimates .....$ 79,106 00 Special Warrants Nos. 28, 40 7,830 00	86,936 00	86,384 38	551 62	.....
81	AGRICULTURAL EDUCATION: Pages A 78–79 Main Estimates .....$ 30,530 00 Special Warrant No. 19 ... 133 34	30,663 34	15,207 47	15,455 87	.....
82	INDUSTRIAL EDUCATION: Pages A 79–80 Main Estimates .....$ 121,710 00 Special Warrant No. 43 ... 550 00	122,260 00	68,946 21	53,313 79	.....
83	INSPECTION OF SCHOOLS: Pages A 80–81 Main Estimates .....$ 62,580 00 Special Warrant No. 43 ... 3,600 00	66,180 00	63,089 43	3,090 57	.....
84	NORMAL SCHOOL, VANCOUVER: Pages A 81–82 Main Estimates .....$ 36,790 00 Supplementary Estimates ... 500 00 Special Warrant No. 32 ... 1,800 00	39,090 00	36,626 94	2,463 06	.....
85	NORMAL SCHOOL, VICTORIA: Pages A 82–84 Main Estimates .....$ 38,615 00 Supplementary Estimates ... 1,000 00 Special Warrants Nos. 14, 19 2,085 50	41,700 50	37,652 23	4,048 27	.....
86	DEAF, DUMB, AND BLIND: Page A 84 Main Estimates	40,000 00	25,030 94	14,969 06	.....
87	PER CAPITA GRANT TO CITIES: Page A 85 Main Estimates	616,000 00	610,803 55	5,196 45	.....
88	PER CAPITA GRANT TO MUNICIPALITIES: Pages A 85–86 Main Estimates	385,000 00	380,919 80	4,080 20	.....
89	PER CAPITA GRANT TO RURAL SCHOOL DISTRICTS: Page A 86 Main Estimates	137,500 00	131,985 35	5,514 65	.....
90	SALARIES OF TEACHERS IN ASSISTED SCHOOLS: Page A 86 Main Estimates	422,000 00	413,990 80	8,009 20	.....
	Carried forward	$ 2,014,671 84	$ 1,894,999 46	$ 119,672 38	.....

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 2,014,671 84	$ 1,894,999 46	$ 119,672 38	.....
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF EDUCATION—*Continued.*				
91	SALARIES OF TEACHERS IN E. & N. RAILWAY BELT: Page A 86 Main Estimates	92,340 00	88,859 75	3,480 25	.....
92	ERECTION OF NEW BUILDINGS AND MAINTENANCE AND REPAIRS OF SCHOOL BUILDINGS: Pages A 86–87 Main Estimates .....$ 320,000 00 Supplementary Estimates ... 60,000 00	380,000 00	378,195 31	1,804 69	.....
93	GRANTS TO LIBRARIES: Page A 87 Main Estimates	1,000 00	967 35	32 65	.....
94	GRANTS IN AID OF MANUAL-TRAINING EQUIPMENT: Page A 87 Main Estimates	2,000 00	223 03	1,776 97	.....
95	EXAMINATION OF TEACHERS AND HIGH SCHOOL ENTRANCE CLASSES: Pages A 87–88 Main Estimates .....$ 17,500 00 Special Warrants Nos. 14, 15 1,250 00	18,750 00	18,497 83	252 17	.....
96	CONVEYING CHILDREN TO CENTRAL SCHOOLS: Page A 88 Main Estimates .....$ 8,000 00 Supplementary Estimates ... 1,000 00 Special Warrant No. 43 ... 3,000 00	12,000 00	11,994 37	5 63	.....
97	SCHOLARSHIPS FOR B.C. STUDENTS FOR POST-GRADUATE STUDY IN FRANCE: Page A 88 Main Estimates	3,600 00	.....	3,600 00	.....
98	CONTINGENCIES AND INCIDENTALS: Page A 88 Main Estimates	5,000 00	4,744 04	255 96	.....
99	GRANT TO UNIVERSITY OF B.C.: Page A 88	420,000 00	420,000 00	.....	.....
	STATUTORY: Page A 88 "Public Schools Act Amendment Act, 1918," Sec. 26	258,463 21	258,463 21	.....	.....
		$ 3,207,825 05	$ 3,076,944 35	$ 130,880 70	.....
	DEPARTMENT OF FINANCE.				
100	MINISTER'S OFFICE: Page A 89 Main Estimates .....$ 12,200 00 Statutory 250 00	$ 12,450 00	$ 12,383 59	$ 66 41	.....
101	GENERAL OFFICE: Pages A 89–90 Main Estimates	32,156 00	34,435 28	.....	$ 2,279 28
102	INSPECTOR OF TRUST COMPANIES, PROBATE AND SUCCESSION DUTIES: Page A 90 Main Estimates	15,825 00	11,194 06	4,630 94	.....
103	CONTROLLING AND AUDIT BRANCH: Pages A 90–91 Main Estimates .....$ 51,900 00 Supplementary Estimates ... 750 00	52,650 00	52,899 63	.....	249 63
104	SURVEYOR OF TAXES: Pages A 91–94 Main Estimates	113,580 00	59,477 73	54,102 27	.....
105	BUREAU OF INFORMATION: Page A 95 Main Estimates	32,772 00	11,495 26	21,276 74	.....
106	AGENT-GENERAL'S OFFICE, LONDON, ENG.: Pages A 95–97 Main Estimates .....$ 84,450 00 Supplementary Estimates ... 3,810 26	88,260 26	79,011 19	9,249 07	.....
	Government Agents and Assessors, etc.				
107	ALBERNI AGENCY: Page A 97 Main Estimates	9,592 00	7,849 76	1,742 24	.....
	Carried forward	$ 357,285 26	$ 268,746 50	$ 91,067 67	$ 2,528 91

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 357,285 26	$ 268,746 50	$ 91,067 67	$ 2,528 91
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF FINANCE—*Continued.*				
	Government Agents and Assessors—Cont'd.				
108	ANYOX AGENCY: Page A 98 Main Estimates	3,700 00	2,728 43	971 57	.....
109	ASHCROFT AGENCY: Page A 98 Main Estimates	7,510 00	7,273 21	236 79	.....
110	ATLIN AGENCY: Pages A 98–99 Main Estimates	12,970 00	11,881 42	1,088 58	.....
111	BARKERVILLE SUB-AGENCY: Page A 99 Main Estimates	4,348 00	4,545 40	.....	197 40
112	CLINTON AGENCY: Pages A 99–100 Main Estimates	6,743 00	6,256 61	486 39	.....
113	CRANBROOK AGENCY: Page A 100 Main Estimates .....$ 15,053 00 Supplementary Estimates ... 1,600 00	16,653 00	16,255 49	397 51	.....
114	CUMBERLAND AGENCY: Page A 101 Main Estimates	9,620 00	8,562 90	1,057 10	.....
115	DUNCAN AGENCY: Page A 101 Main Estimates	7,706 00	6,222 91	1,483 09	.....
116	FAIRVIEW AGENCY: Pages A 101–102 Main Estimates	8,215 00	7,698 24	516 76	.....
117	FERNIE AGENCY: Page A 102 Main Estimates .....$ 8,222 00 Supplementary Estimates ... 700 00	8,922 00	9,060 36	.....	138 36
118	FORT FRASER AGENCY: Pages A 102–103 Main Estimates .....$ 4,205 00 Supplementary Estimates ... 300 00	4,505 00	4,486 26	18 74	.....
119	FORT GEORGE AGENCY: Page A 103 Main Estimates	11,546 00	11,445 40	100 60	.....
120	GOLDEN AGENCY: Pages A 103–104 Main Estimates	10,240 00	7,547 48	2,692 52	.....
121	GRAND FORKS AGENCY: Page A 104 Main Estimates	6,000 00	5,485 62	514 38	.....
122	GREENWOOD AGENCY: Page A 104 Main Estimates	5,000 00	4,809 93	190 07	.....
123	KAMLOOPS AGENCY: Page A 105 Main Estimates .....$ 16,551 00 Supplementary Estimates ... 1,675 00	18,226 00	17,757 34	468 66	.....
124	KASLO AGENCY: Pages A 105–106 Main Estimates	13,017 00	13,007 26	9 74	.....
125	LILLOOET SUB-AGENCY: Page A 106 Main Estimates	6,522 00	4,591 66	1,930 34	.....
126	MERRITT AGENCY: Page A 106 Main Estimates	9,742 00	7,775 00	1,967 00	.....
127	NANAIMO AGENCY: Pages A 106–107 Main Estimates .....$ 17,550 00 Special Warrant No. 18—... 174 00	17,724 00	17,049 84	674 16	.....
128	NELSON AGENCY: Pages A 107–108 Main Estimates .....$ 16,009 00 Supplementary Estimates ... 500 00	16,509 00	15,965 42	543 58	.....
129	NEW WESTMINSTER AGENCY: Pages A 108–109 Main Estimates .....$ 25,315 00 Supplementary Estimates ... 600 00	25,915 00	26,176 38	.....	261 38
130	NEW DENVER SUB-AGENCY: Page A 109 Main Estimates	2,454 00	2,168 68	285 32	.....
131	NICOLA AGENCY: Page A 109 Main Estimates	300 00	300 00	.....	.....
132	150-MILE HOUSE AGENCY: Pages A 109–110 Main Estimates	6,400 00	5,031 08	1,368 92	.....
	Carried forward	$ 597,772 26	$ 492,828 82	$ 108,069 49	$ 3,126 05

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 597,772 26	$ 492,828 82	$ 108,069 49	$ 3,126 05
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF FINANCE—*Continued.*				
	Government Agents and Assessors—Cont'd.				
133	POUCE COUPE AGENCY: Page A 110 Main Estimates	6,760 00	4,517 01	2,242 99	.....
134	PRINCE RUPERT AGENCY: Pages A 110–111 Main Estimates .....$ 28,426 00 Supplementary Estimates ... 1,250 00	29,676 00	29,760 92	.....	84 92
135	PRINCETON AGENCY: Pages A 111–112 Main Estimates	5,837 00	5,059 03	777 97	.....
136	QUESNEL AGENCY: Page A 112 Main Estimates	26,525 00	26,544 90	.....	19 90
137	QUEEN CHARLOTTE ISLANDS SUB-AGENCY: Page A 113 Main Estimates	1,447 00	1,384 01	62 99	.....
138	REVELSTOKE AGENCY: Page A 113 Main Estimates	13,885 00	13,520 15	364 85	.....
139	ROSSLAND AGENCY: Pages A 113–114 Main Estimates	13,399 00	11,169 77	2,229 23	.....
140	SMITHERS AGENCY: Pages A 114–115 Main Estimates .....$ 15,086 00 Supplementary Estimates ... 1,750 00	16,836 00	17,883 33	.....	1,047 33
141	TELEGRAPH CREEK AGENCY: Page A 115 Main Estimates	3,240 00	2,743 00	497 00	.....
142	TROUT LAKE SUB-AGENCY: Page A 115 Main Estimates	1,655 00	1,428 43	226 57	.....
143	VANCOUVER AGENCY: Pages A 115–118 Main Estimates	105,482 00	105,912 42	.....	430 42
144	VERNON AGENCY: Pages A 118–119 Main Estimates .....$ 15,822 00 Supplementary Estimates ... 2,100 00	17,922 00	18,204 83	.....	282 83
145	VICTORIA ASSESSOR: Page A 119 Main Estimates	23,931 00	21,205 37	2,725 63	.....
146	WILMER SUB-AGENCY: Pages A 119–120 Main Estimates .....$ 2,213 00 Supplementary Estimates ... 35 00	2,248 00	2,420 99	.....	172 99
147	YALE SUB-AGENCY: Page A 120 Main Estimates	2,484 00	2,176 72	307 28	.....
148	SUNDRY SUB-AGENCIES: Pages A 120–121 Main Estimates .....$ 2,500 00 Supplementary Estimates ... 140 00	2,640 00	2,698 97	.....	58 97
149	SUNDRY SUB-AGENCIES AND ASSESSORS, ETC.—VAULTS AND SAFES. Pages A 121–122 Main Estimates	20,000 00	3,874 36	16,125 64	.....
150	OPERATION OF THE "AMUSEMENTS TAX ACT": Page A 122 Main Estimates .....$ 6,634 00 Supplementary Estimates ... 676 36	7,310 36	5,717 77	1,592 59	.....
151	PRINTING PUBLIC ACCOUNTS, ESTIMATES, ETC.: Page A 122 Main Estimates	6,000 00	3,871 30	2,128 70	.....
152	INTEREST ON SUITORS' FUNDS AND OFFICIAL GUARDIAN DEPOSITS: Page A 122 Main Estimates	10,000 00	6,465 58	3,534 42	.....
153	DELINQUENT EXTRA-MUNICIPAL SCHOOL TAXES: Page A 122 Main Estimates .....$ 25,000 00 Statutory 2,926 87	27,926 87	27,926 87	.....	.....
154	PREMIUM ON FIRE INSURANCE, FAIRVIEW WORKS: Page A 122 Main Estimates	840 00	917 43	.....	77 43
155	MISCELLANEOUS, NOT DETAILED IN ESTIMATES: Page A 123 Main Estimates	35,000 00	16,682 90	18,317 10	.....
	Carried forward	$ 978,816 49	$ 824,914 88	$ 159,202 45	$ 5,300 84

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 978,816 49	$ 824,914 88	$ 159,202 45	$ 5,300 84
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF FINANCE—*Continued.*				
	STATUTORY: Page A 123				
	"Revenue Act Amendment Act, 1920," Sec. 2	2,774 85	2,774 85	.....	.....
	"Taxation Act," R.S.B.C. 1911, Sec. 155	79 59	79 59	.....	.....
	"Real-estate Agents' Licensing Act, 1920," Sec. 23	73 70	73 70	.....	.....
	"Taxation Act Amendment Act, 1919," Sec. 17	243 68	243 68	.....	.....
	"Pre-emptors' Free Grants Act Amendment Act, 1919," Sec. 3	841 85	841 85	.....	.....
		$ 982,830 16	$ 828,928 55	$ 159,202 45	$ 5,300 84
	DEPARTMENT OF FISHERIES.				
156	Page A 124 Main Estimates	$ 18,090 00	$ 15,672 50	$ 2,417 50	.....
	DEPARTMENT OF INDUSTRIES.				
157	Pages A 124–125 Main Estimates	$ 28,300 00	$ 16,476 16	$ 11,823 84	.....
	DEPARTMENT OF LANDS.				
158	MINISTER'S OFFICE: Page A 125 Main Estimates .....$ 12,942 00 Statutory 250 00	$ 13,192 00	$ 13,039 33	$ 152 67	.....
159	GENERAL OFFICE: Page A 126 Main Estimates .....$ 33,224 00 Special Warrant No. 7 .... 41 95	33,265 95	32,329 10	936 85	.....
160	LANDS BRANCH: Page A 126 Main Estimates .....$ 45,128 00 Special Warrant No. 7 .... 30 00	45,158 00	44,565 55	592 45	.....
161	SURVEY BRANCH: Page A 127 Main Estimates .....$ 75,974 00 Special Warrant No. 7 .... 120 28	76,094 28	64,636 30	11,457 98	.....
162	WATER RIGHTS BRANCH: Pages A 127-128 Main Estimates .....$ 95,812 00 Special Warrant No. 7 .... 30 00	95,842 00	86,097 73	9,744 27	.....
163	FOREST BRANCH: Pages A 128–131 Main Estimates .....$ 221,410 00 Special Warrants Nos. 7, 8 120 00	221,530 00	182,862 09	38,667 91	.....
164	GENERAL—TEMPORARY ASSISTANCE: Page A 132 Main Estimates	25,000 00	18,782 47	6,217 53	.....
165	EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES): Pages A 132–141 Main Estimates .....$ 179,705 00 Supplementary Estimates ... 10,000 00	189,705 00	173,270 24	16,434 76	.....
166	FOREST PROTECTION FUND: Page A 142 Main Estimates .....$ 150,000 00 Statutory 39,816 80	189,816 80	189,816 80	.....	.....
167	LUMBER TRADE EXTENSION: Pages A 142–143 Main Estimates	40,000 00	28,920 31	11,079 69	.....
168	RAINFALL AND CLIMATIC STATISTICS: Page A 143 Main Estimates	700 00	492 36	207 64	.....
169	GENERAL WATER SURVEYS: Pages A 143-144 Main Estimates	45,000 00	26,112 34	18,887 66	.....
170	WELL-DRILLING, SALARIES AND EXPENSES: Page A 144 Main Estimates	10,000 00	513 93	9,486 07	.....
171	SPECIAL STUDIES: DUTY OF WATER: Page A 144 Main Estimates	3,000 00	.....	3,000 00	.....
172	B.C. HYDROMETRIC SURVEY: Page A 144 Main Estimates	7,500 00	7,499 23	77	.....
	Carried forward	$ 995,804 03	$ 868,937 78	$ 126,866 25	.....

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 995,804 03	$ 868,937 78	$ 126,866 25	.....
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF LANDS—*Continued.*				
173	LITHOGRAPH MAPS: Page A 144 Main Estimates	10,000 00	6,474 60	3,525 40	.....
174	LAND SURVEYS: Pages A 144–145 Main Estimates .....$ 231,000 00 Supplementary Estimates ... 25,000 00	256,000 00	252,726 72	3,273 28	.....
175	PHOTO-TOPOGRAPHICAL SURVEYS: Page A 145 Main Estimates	29,000 00	29,762 85	.....	$ 762 85
176	PUBLICITY: Page A 145 Main Estimates	10,000 00	3,100 44	6,899 56	.....
177	GENERAL INVESTIGATIONS: Page A 145 Main Estimates	10,000 00	631 45	9,368 55	.....
178	INCIDENTALS AND CONTINGENCIES: Page A 145 Main Estimates	10,000 00	754 05	9,245 95	.....
179	IRRIGATION CONVENTION: Page A 145 Main Estimates	500 00	500 00	.....	.....
180	RECONNAISSANCE: GROWTHS, STUDIES, AND CRUISING: Pages A 145–146 Main Estimates	40,000 00	31,189 10	8,810 90	.....
181	INSECT DAMAGE: INVESTIGATION AND CONTROL: Page A 146 Main Estimates	10,000 00	6,913 08	3,086 92	.....
182	GRAZING: RANGE IMPROVEMENTS, ETC.: Page A 146 Main Estimates	3,500 00	3,470 11	29 89	.....
183	OIL INVESTIGATIONS: Page A 147 Main Estimates	25,000 00	14,989 66	10,010 34	.....
183A	REFUND OF AMOUNT PAID ON CERTIFICATE OF PURCHASE NO. 1706: Page A 147 Supplementary Estimates	200 00	200 00	.....	.....
183B	REFUND OF AMOUNT PAID ON CERTIFICATE OF PURCHASE NO. 2705: Page A 147 Supplementary Estimates	80 00	80 00	.....	.....
183C	CAPTAIN E. R. CLUTTERBUCK, REPURCHASE OF LOT 164, SAYWARD DISTRICT, CROWN-GRANTED IN ERROR, OCTOBER 20TH, 1910: Page A 147 Supplementary Estimates	8,881 40	.....	8,881 40	.....
	STATUTORY: Pages A 147–148 "Land Act," R.S.B.C. 1911, and "Revenue Act Amendment Act, 1920"	12,841 06	12,841 06	.....	.....
	"Townsite Proportionate Allotment Act, 1918," Sec. 9	60,000 00	60,000 00	.....	.....
	"Soldiers' Land Act, 1918," Sec. 5 (*e*), Incidental Expenses	15,380 24	15,380 24	.....	.....
		$ 1,497,186 73	$ 1,307,951 14	$ 189,998 44	$ 762 85
	DEPARTMENT OF LABOUR.				
184	GENERAL OFFICE: Page A 149 Main Estimates	$ 15,540 00	$ 11,226 66	$ 4,313 34	.....
185	MINIMUM WAGE BOARD: Page A 149 Main Estimates	9,380 00	4,751 28	4,628 72	.....
	Employment Bureaus.				
186	CRANBROOK: Pages A 149–150 Main Estimates	2,820 00	1,866 60	953 40	.....
187	FERNIE: Page A 150 Main Estimates	2,820 00	1,961 80	858 20	.....
188	KAMLOOPS: Page A 150 Main Estimates	2,820 00	2,144 17	675 83	.....
	Carried forward	$ 33,380 00	$ 21,950 51	$ 11,429 49	.....

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 33,380 00	$ 21,950 51	$ 11,429 49	.....
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF LABOUR—*Continued.*				
	Employment Bureaus—Continued.				
189	NANAIMO: Pages A 150–151 Main Estimates	2,820 00	2,103 64	716 36	.....
190	NELSON: Page A 151 Main Estimates	4,700 00	3,515 33	1,184 67	.....
191	NEW WESTMINSTER: Page A 151 Main Estimates	2,820 00	1,948 00	872 00	.....
192	PRINCE RUPERT: Pages A 151–152 Main Estimates	3,100 00	1,978 66	1,121 34	.....
193	VANCOUVER: Pages A 152–153 Main Estimates .....$ 34,060 00 Supplementary Estimates ... 7,493 40	41,553 40	39,576 13	1,977 27	.....
194	VERNON: Page A 153 Main Estimates	2,820 00	2,344 20	475 80	.....
195	VICTORIA: Pages A 153–154 Main Estimates	10,800 00	9,303 69	1,496 31	.....
196	SUB-AGENCIES: Page A 154 Main Estimates	3,100 00	2,206 83	893 17	.....
	SPECIAL WARRANTS: Page A 155 No. 13. Crow's Nest Pass Coal Co., Ltd., *re* labour from Vancouver	172 35	172 35	.....	.....
	No. 23. Allowance and expenses, B.C. representative at Ottawa *re* Uniformity of Industrial Laws	657 80	418 90	238 90	.....
	No. 38. To provide for contributions towards the cost of relief of destitution in Provincial municipalities	100,000 00	90,380 00	9,620 00	.....
		$ 205,923 55	$ 175,898 24	$ 30,025 31	.....
	DEPARTMENT OF MINES.				
197	MINISTER'S OFFICE: Page A 155 Main Estimates .....$ 10,565 00 Statutory 250 00	$ 10,815 00	$ 10,388 27	$ 426 73	.....
198	GENERAL OFFICE: Pages A 155–156 Main Estimates	19,702 00	20,049 30	.....	$ 347 30
199	MINES INSPECTION BRANCH: Pages A 156–157 Main Estimates	40,600 00	37,108 24	3,491 76	.....
200	BUREAU OF MINES: Page A 157 Main Estimates	16,630 00	14,966 41	1,663 59	.....
201	MINE-RESCUE AND TRAINING STATIONS: Pages A 157–158 Main Estimates	17,330 00	16,034 56	1,295 44	.....
202	GRANT TO WESTERN BRANCH, CANADIAN MINING INSTITUTE: Page A 158 Main Estimates	1,000 00	1,000 00	.....	.....
203	GRANT TO VANCOUVER CHAMBER OF MINES: Page A 158 Main Estimates	2,500 00	2,500 00	.....	.....
204	GRANTS TO MINING CONVENTIONS: Page A 158 Main Estimates	2,500 00	2,000 00	500 00	.....
205	"MINES DEVELOPMENT ACT," SUPPLEMENTARY: Pages A 158–159 Main Estimates	100,000 00	88,091 15	11,908 85	.....
206	"MINERAL SURVEY AND DEVELOPMENT ACT," SUPPLEMENTARY: Pages A 159–160 Main Estimates	75,000 00	72,994 08	2,005 92	.....
	SPECIAL WARRANT: Page A 160 No. 3. *Re* outfitting parties of returned soldiers as prospectors	50,000 00	15,336 57	34,663 43	.....
	Carried forward	$ 336,077 00	$ 280,468 58	$ 55,955 72	$ 347 30

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 336,077 00	$ 280,468 58	$ 55,955 72	$ 347 30
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF MINES—*Continued.*				
	STATUTORY: Pages A 160–161				
	"Taxation Act," R.S.B.C. 1911	56 89	56 89	.....	.....
	"Mines Development Act, 1916"	34,950 36	.....	34,950 36	.....
	"Mineral Survey and Development Act, 1917"	54,424 02	13,647 06	40,776 96	.....
	"Complex Ore Process Aid Act, 1916" ..	2,000 00	2,000 00	.....	.....
	"Complex Ore Process Further Aid Act, 1918"	1,750 00	1,750 00	.....	.....
	"Iron-ore Supply Act, 1919"	391 29	391 29	.....	.....
	"Coal-mines Regulation Act," R.S.B.C. 1911, and Amendments	1,269 64	1,269 64	.....	.....
		$ 430,919 20	$ 299,583 46	$ 131,683 04	$ 347 30
	DEPARTMENT OF THE PROVINCIAL SECRETARY.				
207	MINISTER'S OFFICE: Page A 161 Main Estimates .....$ 9,440 00 Statutory 250 00	$ 9,690 00	$ 9,605 28	$ 84 72	.....
208	GENERAL OFFICE: Pages A 161–162 Main Estimates	14,180 00	13,822 07	357 93	.....
209	PROVINCIAL BOARD OF HEALTH: Pages A 162–166 Main Estimates	67,030 00	73,223 77	.....	$ 6,193 77
210	PROVINCIAL LIBRARY AND ARCHIVES: Pages A 166–168 Main Estimates	20,520 00	20,726 68	.....	206 68
211	"PUBLIC LIBRARIES ACT": Pages A 168–169 Main Estimates	8,100 00	8,156 06	.....	56 06
212	PROVINCIAL MUSEUM: Page A 169 Main Estimates .....$ 10,608 00 Special Warrant No. 17 .... 60 00	10,668 00	8,740 06	1,927 94	.....
	Mental Hospitals.				
213	NEW WESTMINSTER: Pages A 169–174 Main Estimates .....$ 212,196 00 Supplementary Estimates ... 20,000 00	232,196 00	222,957 04	9,238 96	.....
214	ESSONDALE: Pages A 174–178 Main Estimates .....$ 280,788 00 Supplementary Estimates ... 15,000 00	295,788 00	272,987 73	22,800 27	.....
215	COLONY FARM AND NURSERY, ESSONDALE: Pages A 178–180 Main Estimates .....$ 88,152 00 Supplementary Estimates ... 3,000 00	91,152 00	97,881 55	.....	6,729 55
216	MENTAL HOME (SAANICH), COLQUITZ: Pages A 180–182 Main Estimates .....$ 46,480 00 Supplementary Estimates ... 4,000 00	50,480 00	49,378 16	1,101 84	.....
217	PROVINCIAL HOME, KAMLOOPS: Pages A 182–183 Main Estimates	42,945 00	44,474 66	.....	1,529 66
218	STATUTORY GRANTS TO HOSPITALS: Page A 183 Main Estimates	450,000 00	449,356 05	643 95	.....
219	SPECIAL GRANTS TO HOSPITALS: Page A 184 Main Estimates	35,000 00	32,450 00	2,550 00	.....
220	GRANTS TO REFUGE HOMES, AID SOCIETIES, ETC.: Page A 184 Main Estimates	6,000 00	5,600 00	400 00	.....
221	IN AID OF DESTITUTE POOR AND SICK: Page A 184 Main Estimates	25,000 00	26,681 68	.....	1,681 68
222	IN AID OF RESIDENT PHYSICIANS: Pages A 184–185 Main Estimates	10,000 00	11,794 31	.....	1,794 31
	Carried forward	$ 1,368,749 00	$ 1,347,835 10	$ 39,105 61	$18,191 71

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 1,368,749 00	$ 1,347,835 10	$ 39,105 61	$18,191 71
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*				
223	BURIAL OF INDIGENT PERSONS: Page A 185 Main Estimates .....$ 1,250 00 Special Warrant No. 45 .... 1,000 00	2,250 00	1,883 73	366 27	.....
224	KING'S PRINTER: Pages A 185–187 Main Estimates .....$ 189,747 48 Supplementary Estimates ... 12,000 00 Special Warrants Nos. 17, 35 45,500 00	247,247 48	253,662 73	.....	6,415 25
225	CIVIL SERVICE COMMISSION: Pages A 187–188 Main Estimates	15,650 00	11,341 66	4,308 34	.....
226	REGISTRATION OF VOTERS: Pages A 188–190 Main Estimates .....$ 20,000 00 Special Warrant No. 4 ..... 50,000 00	70,000 00	61,038 23	8,961 77	.....
227	ROYAL COMMISSIONS: Page A 190 Main Estimates	10,000 00	4,550 15	5,449 85	.....
229	GRANT TO CITY OF GREENWOOD: Page A 191 Main Estimates	1,000 00	1,000 00	.....	.....
230	GRANT TO CITY OF PHOENIX: Page A 191 Main Estimates	4,500 00	4,500 00	.....	.....
231	GRANT TO CITY OF ROSSLAND: Page A 191 Main Estimates	12,000 00	12,000 00	.....	.....
232	GRANT TO PACIFIC NORTH-WEST TOURIST ASSOCIATION: Page A 191 Main Estimates	12,500 00	12,500 00	.....	.....
233	GRANT FOR PATRIOTIC PURPOSES, RETURNED SOLDIERS' AID COMMISSION, ETC.: Pages A 191–192 Main Estimates	250,000 00	171,505 65	78,494 35	.....
234	GRANTS TOWARDS EXPENSES OF IMPERIAL PRESS CONFERENCE: Page A 192 Main Estimates	5,000 00	5,000 00	.....	.....
235	SUPERANNUATION: Page A 192 Main Estimates	70,000 00	57,507 56	12,492 44	.....
236	GRATUITIES UNDER SEC. 45, "CIVIL SERVICE ACT": Page A 192 Main Estimates	6,000 00	2,785 00	3,215 00	.....
238	ASSESSMENT ON CLASS 13, "WORKMEN'S COMPENSATION ACT": Page A 193 Main Estimates .....$ 25,000 00 Special Warrant No. 35 .... 25,000 00	50,000 00	50,000 00	.....	.....
239	SALARIES OF MEMBERS, WORKMEN'S COMPENSATION BOARD: Page A 193 Main Estimates .....$ 16,000 00 Statutory, "Workmen's Compensation Act Amendment Act, 1919" 500 00	16,500 00	16,500 00	.....	.....
240	SALARIES, INDUSTRIAL SCHOOL AND SUBNORMAL BOYS' SCHOOL: Page A 193 Main Estimates	8,000 00	.....	8,000 00	.....
241	MAINTENANCE AND FURNISHING INDUSTRIAL SCHOOL AND SUBNORMAL BOYS' SCHOOL: Page A 193 Main Estimates	30,000 00	1,646 95	28,353 05	.....
242	CONTINGENCIES AND INCIDENTALS: Page A 193 Main Estimates	10,000 00	5,287 08	4,712 92	.....
	STATUTORY: Pages A 193–202 "Temperance Plebiscite Act, 1920" .... "Provincial Elections Act, 1920"	88,461 84 107,007 92	88,461 84 107,007 92	....	....
	SPECIAL WARRANTS: Page A 202 No. 33. Advances to permanent members of the Civil Service for the purpose of purchasing fuel	10,000 00	.....	10,000 00	.....
	Carried forward	$ 2,394,866 24	$ 2,216,013 60	$ 203,459 60	$24,606 96

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 2,394,866 24	$ 2,216,013 60	$ 203,459 60	$24,606 96
	CURRENT ACCOUNT—*Continued.*				
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*				
	SPECIAL WARRANTS—*Continued.*				
	No. 47. To provide for an amount to be advanced to Police Officers of the Government of the Crown Colony of Hong Kong for expenses while awaiting transportation	450 00	.....	450 00	.....
		$ 2,395,316 24	$ 2,216,013 60	$ 203,909 60	$24,606 96
	DEPARTMENT OF PUBLIC WORKS.				
243	MINISTER'S OFFICE: Page A 202 Main Estimates .....$ 11,040 00 Statutory 250 00	$ 11,290 00	$ 10,676 68	$ 613 32	.....
244	ADMINISTRATION: Pages A 203–204 Main Estimates .....$ 64,754 00 Supplementary Estimates ... 600 00 Special Warrants Nos. 6, 11, 39, 49 ..... 3,020 00	68,374 00	64,590 53	3,783 47	.....
245	MAINTENANCE OF PARLIAMENT BUILDINGS AND GROUNDS: Pages A 204–206 Main Estimates .....$ 127,164 00 Special Warrants Nos. 6, 11 1,370 00	128,534 00	121,128 16	7,405 84	.....
246	MAINTENANCE OF GOVERNMENT HOUSE AND GROUNDS: Pages A 207–208 Main Estimates	19,400 00	20,790 11	.....	$ 1,390 11
247	DISTRICT ENGINEERS: Pages A 208–209 Main Estimates .....$ 58,000 00 Supplementary Estimates ... 600 00 Special Warrant No. 39 .... 80 00	58,680 00	61,402 43	.....	2,722 43
248	STEAM-BOILER INSPECTION: Pages A 209–210 Main Estimates .....$ 54,807 00 Special Warrants Nos. 9, 39 2,554 00	57,361 00	54,715 74	2,645 26	.....
249	"ELECTRICAL ENERGY INSPECTION ACT": Pages A 210–211 Main Estimates	8,350 00	7,258 29	1,091 71	.....
250	"FACTORIES ACT": Page A 211 Main Estimates	8,618 00	8,569 80	48 20	.....
251	ROADS, STREETS, BRIDGES, AND WHARVES: Pages A 211–261 Main Estimates .....$2,197,600 00 Supplementary Estimates ... 176,000 00	2,373,600 00	2,288,572 39	85,027 61	.....
252	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS: Pages A 261–272 Main Estimates .....$ 195,490 00 Supplementary Estimates ... 18,000 00	213,490 00	201,052 56	12,437 44	.....
252A	MATSQUI DRAINAGE: Supplementary Estimates	60,000 00	.....	60,000 00	.....
	SPECIAL WARRANTS: Pages A 272–274 No. 5. "Highway Act Amendment Act" *re* change in rule of the road	5,000 00	1,899 67	3,100 33	.....
	No. 34. To provide for expenditure *re* relief of unemployment	62,000 00	56,932 35	5,067 65	.....
		$ 3,074,697 00	$ 2,897,588 71	$ 181,220 83	$ 4,112 54
	DEPARTMENT OF RAILWAYS.				
253	GENERAL OFFICE: Page A 274 Main Estimates	$ 24,900 00	$ 23,794 09	$ 1,105 91	.....
254	FRASER RIVER BRIDGE, NEW WESTMINSTER: Page A 275 Main Estimates .....$ 25,000 00 Supplementary Estimates ... 4,000 00 Special Warrant No. 21 .... 25,000 00	54,000 00	52,467 99	1,532 01	.....
	STATUTORY: Page A 275 "Kettle Valley Railway Act, 1914"	68,550 00	68,550 00	.....	.....
		$ 147,450 00	$ 144,812 08	$ 2,637 92	.....

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	CAPITAL ACCOUNT.				
	(EXPENDITURES OUT OF INCOME.)				
255	SINKING FUNDS: Page A 276 Main Estimates	$ 1,183,761 36	$ 1,143,832 23	$ 39,929 13	.....
256	PACIFIC GREAT EASTERN RAILWAY—INTEREST ON GUARANTEED BONDS, DUE 15TH JULY, 1920, AND 15TH JANUARY, 1921: Page A 276 Main Estimates	907,200 00	591,134 82	316,065 18	.....
257	BRITISH COLUMBIA HOUSE, LONDON, ENGLAND —INSTALMENT ON MORTGAGE: Page A 276 Main Estimates	9,700 00	9,700 00	.....	.....
258	SONGHEES RESERVE: Page A 277 Main Estimates	50,000 00	39,129 80	10,870 20	.....
259	JOHNSON STREET BRIDGE, VICTORIA (RE-VOTED): Page A 277 Main Estimates	200,000 00	.....	200,000 00	.....
260	ROADS, STREETS, BRIDGES, AND WHARVES: Pages A 277–278 Main Estimates	116,300 00	60,342 14	55,957 86	.....
261	INDUSTRIAL SCHOOL AND BOYS' SUBNORMAL SCHOOL BUILDINGS: Page A 278 Main Estimates	250,000 00	265,888 20	.....	$15,888 20
262	GOVERNMENT BUILDINGS, PRINCE RUPERT: Page A 278 Main Estimates	100,000 00	2,447 06	97,552 94	.....
263	POLICE STATION AND QUARTERS, BRIDGE CROSSING: Page A 279 Main Estimates	5,000 00	1,662 85	3,337 15	.....
264	POLICE STATION AND QUARTERS, KELOWNA: Page A 279 Main Estimates	3,500 00	154 65	3,345 35	.....
265	POLICE STATION AND QUARTERS, CLINTON: Page A 279 Main Estimates	5,000 00	62 25	4,937 75	.....
266	POLICE STATION AND QUARTERS AT OTHER POINTS IF REQUIRED: Page A 279 Main Estimates	5,000 00	3,496 29	1,503 71	.....
267	MENTAL HOSPITALS, NEW WESTMINSTER, ESSONDALE, AND COLONY FARM: Pages A 279–281 Main Estimates	81,000 00	85,226 81	.....	4,226 81
268	GOVERNMENT BUILDINGS, POUCE COUPE: Page A 281 Main Estimates	12,000 00	2,069 40	9,930 60	.....
269	GOVERNMENT BUILDING, WILLIAMS LAKE: Page A 281 Main Estimates	20,000 00	.....	20,000 00	.....
270	PURCHASE OF BUILDING, BARKERVILLE: Page A 281 Main Estimates	3,500 00	.....	3,500 00	.....
271	TECHNICAL SCHOOL (PROVISIONAL): Page A 282 Main Estimates	175,000 00	181,052 33	.....	6,052 33
272	FORESTRY OFFICES AND RANGERS' STATIONS: Page A 282 Main Estimates	18,000 00	3,467 27	14,532 73	.....
273	WARDEN'S RESIDENCE, OAKALLA PRISON FARM: Page A 282 Main Estimates $ 5,000 00 Supplementary Estimates 2,000 00	7,000 00	5,709 41	1,290 59	.....
274	MAIN HIGHWAYS, INDUSTRIAL AND SETTLEMENT ROADS: Pages A 282–287 Main Estimates	300,000 00	297,857 47	2,142 53	.....
	Carried forward	$ 3,451,961 36	$ 2,693,232 98	$ 784,895 72	$26,167 34

No. of Vote.	SERVICE.	TOTAL APPROPRIATION.	EXPENDED.	UNEXPENDED.	OVER-EXPENDED.
	Brought forward	$ 3,451,961 36	$ 2,693,232 98	$ 784,895 72	$26,167 34
	CAPITAL ACCOUNT—*Continued.*				
	(EXPENDITURES OUT OF INCOME—*Continued.*)				
	STATUTORY:				
	"Pacific Great Eastern Note Guarantee Act, 1919" .....Page A 276	175,515 55	175,515 55	.....	.....
	"Soldiers Land Act, 1918"..Page A 287	644,388 57	644,388 57	.....	.....
	SPECIAL WARRANTS:				
	No. 34. Advances to municipalities *re* unemployment relief .....Page A 288	188,000 00	123,000 00	65,000 00	.....
	No. 36. Advance to P.G.E. Railway for construction and operation of its railway and undertaking .....Page A 276	750,000 00	750,000 00	.....	.....
	No. 48. Girls' Industrial School, for erection of barn and clearing land ..... Page A 288	7,000 00	3,612 50	3,387 50	.....
		$ 5,216,865 48	$ 4,389,749 60	$ 853,283 22	$26,167 34
	RECAPITULATION.				
	CURRENT ACCOUNT:				
	Public Debt	$ 2,294,701 57	$ 2,222,139 12	$ 72,562 45	.....
	Legislation	128,450 00	124,768 27	3,681 73	.....
	Premier's Office	13,880 00	12,633 59	1,246 41	.....
	Department of Agriculture	371,668 90	332,866 71	38,917 92	$ 115 73
	Department of the Attorney-General	1,630,976 85	1,564,654 87	96,593 78	30,271 80
	Department of Education	3,207,825 05	3,076,944 35	130,880 70	.....
	Department of Finance	982,830 16	828,928 55	159,202 45	5,300 84
	Department of Fisheries	18,090 00	15,672 50	2,417 50	.....
	Department of Industries	28,300 00	16,476 16	11,823 84	.....
	Department of Lands	1,497,186 73	1,307,951 14	189,998 44	762 85
	Department of Labour	205,923 55	175,898 24	30,025 31	.....
	Department of Mines	430,919 20	299,583 46	131,683 04	347 30
	Department of the Provincial Secretary ..	2,395,316 24	2,216,013 60	203,909 60	24,606 96
	Department of Public Works	3,074,697 00	2,897,588 71	181,220 83	4,112 54
	Department of Railways	147,450 00	144,812 08	2,637 92	.....
	Total Current Account	$16,428,215 25	$15,236,931 35	$ 1,256,801 92	$65,518 02
	CAPITAL ACCOUNT (CHARGED TO INCOME)...	5,216,865 48	4,389,749 60	853,283 22	26,167 34
	Totals, fiscal year 1920-21	$21,645,080 73	$19,626,680 95	$ 2,110,085 14	$91,685 36

DETAILS OF EXPENDITURE

FOR THE

FISCAL YEAR ENDED 31ST MARCH, 1921

CURRENT ACCOUNT

No. of Vote.	SERVICE.	Expended.	
1.	PUBLIC DEBT.		
	Interest ($2,120,022.05):		
	"Loan Acts, 1891, 1893, 1895, 1899, and 1902"—Interest @ 3% on amount of Inscribed Stock, viz., $9,921,936	$297,658 08	
	"Loan Act, 1914"—Interest @ 4½% on amount of Inscribed Stock, viz., $7,275,000	327,375 00	
	"Loan Act, 1915"—Interest @ 4½% on Debentures of $3,130,000	140,850 00	
	"Loan Act, 1916"—Interest @ 4½% on Debentures of $2,000,000	90,000 00	
	"Loan Act, 1916"—Interest @ 5% on Debentures of $6,450,000	322,500 00	
	"Loan Act, 1917"—Interest @ 5% on Debentures of $1,100.000	55,000 00	
	"Loan Act, 1918"—Interest @ 5½% on Debentures of $3,000,000	165,000 00	
	"Dyking Debentures, 1897 and 1899"—Interest @ 3½% on $445,000	15,575 00	
	"Corporation of the District of South Vancouver Aid Act, 1918,"—Interest @ 6% on Treasury Notes of $790,000	47,400 00	
	"Better Housing Act, 1919"—Interest @ 5% on Debentures of $1,361,500	59,495 01	
	"Pacific Great Eastern Construction Loan Act, 1920"—Interest @ 6% on Debentures of $4,000,000	151,068 48	
	"Pacific Great Eastern Note Payment Loan Act, 1920"—Interest @ 6% on Debentures of $4,828,000	227,260 00	
	Sundry Loan Acts—Interest on Treasury Bills	220,840 48	
			$2,120,022 05
	Premium and Exchange ($93,575.90):		
	Premium on remittances for payment of Coupons, "Loan Acts, 1915–1920"	$127,085 90	
	Less Premium on sale of $1,000,000 3-year 6% Debentures, "Loan Act, 1920"	33,510 00	
			93,575 90
	Discount and Commission ($8,541.17):		
	½ of 1% Commission to Loan Trustees on sums invested	$ 726 73	
	Annual Commission for inscribing and paying Interest on Inscribed Stock	5,820 00	
	Brokerage, Dividend Warrant Stamps, and Postage in London	836 97	
	Commission for payment of Interest on Loans, 1915–1920	1,157 47	
	Discount on sale of $3,000,000 5-year 6% Debentures, "Pacific Great Eastern Construction Loan Act, 1920" $32,700 00		
	Less Premium on sale of $1,000,000 5-year 6% Debentures, "Pacific Great Eastern Construction Loan Act, 1920" 7,368 40	25,331 60	
	Discount on sale of $4,000,000 5-year 6% Debentures, "Pacific Great Eastern Note Payment Loan Act, 1920" $28,064 00		
	Less Premium on sale of $28,000 5-year 6% Debentures, "Pacific Great Eastern Note Payment Loan Act, 1920" 64 00	28,000 00	
		$ 61,872 77	
	Less charged to Pacific Great Eastern Railway Co.	53,331 60	
			8,541 17
	Total expenditure, Public Debt		$2,222,139 12

No. of Vote.	SERVICE.	Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*	
	Brought forward	$ 11,245 00
5.	GENERAL OFFICE.	
	Salaries ($23,666.46):	
	Deputy Minister ..... D. Warnock	$ 4,119 96
	Chief Clerk ..... W. J. Bonavia	2,020 00
	Accountants:	
	W. T. Andrews .....$1,780 00 W. H. Thornborrow..$875 00	2,655 00
	Clerks:	
	F. H. Davey .....$1,392 00 R. E. Mitchell $1,452 00	
	A. J. Hourston ..... 1,392 00 C. P. L. Pearson .. 1,452 00	5,688 00
	Messenger ..... E. A. Raines	420 00
	General Assistant ..... A. H. Shotbolt	1,680 00
	Stenographers:	
	V. M. Brakes .....$840 00 A. E. Hill $300 00	
	F. Brenchley ..... 24 88 L. Lees 810 00	
	S. F. Briggs ..... 202 50 G. Lindsay 840 00	
	F. Brookes ..... 780 00 M. Moffatt 132 09	
	E. L. Clarke ..... 840 00 M. Walsh 810 00	
	F. Dawson 58 70	5,638 17
	Carpenter ..... D. Mackereth	1,200 00
	Temporary Assistance ..... J. W. McNeill	245 33
		$ 23,666 46
	Expenses ($16,233.05):	
	Office Supplies, etc.:	
	American News Co., Ltd., $547.56; J. A. Bates, $34.60; Brand & Co., $3.75; B.A. Paint Co., $19.82; B.C. Assay & Chemical Supply Co., Ltd., $15.80; B.C. Saddlery Co., Ltd., $70; B. C. Stevens Co., Ltd., $42.94; B.C. Stock-breeders' Association, $10; B.C. Telephone Co., Ltd., $707.54; B.C. Veterans' Weekly, $206.24; Brooks-Corning Co., Ltd., $164.25; R. Bryant, $8; Bulletin Co., Ltd., $5.72; D. E. Campbell, $1.65; Canadian Express Co., $30.41; Can. Facts Pub. Co., $3.49; Can. Office Appliance & Supply Co., $19.50; C.P.R. Telegraph Co., $518.91; Central Transfer, $78.24; Central Scientific Co., $14.04; Chilliwack Progress, $13; Chittenden & McKeen, $37.60; Clarke & Stuart Co., Ltd., $3.13; Collector of Customs of Canada, $6.88; Colonist P. & P. Co., Ltd., $12; Co-operative Supply Department, $15.85; J. A. Curror, $120; Cut Drug Co., $1.20; Department of Public Printing and Stationery, Ottawa, $2.50; Dominion of Canada Guarantee & Accident Insurance Co., $31.25; Dominion Express Co., $428.09; Dominion Government Telegraph Service, $18.17; Drake Hardware Co., Ltd., 90c.; W. Duncan, $31; Electric Blue Print & Map Co., $8.40; R. H. English, $7.82; Farm & Home, $220.50; Farmers' Advocate, Ltd., $9.50; A. E. Fisher, $9; E. Fleming, $125.03; H. Fleming, $50.36; W. S. Fraser & Co., Ltd., $97.77; G.N.W. Telegraph Co., $158.03; E. S. Harris, $2; J. Harwood, $6.60; T. N. Hibben & Co., Ltd., 47c.; W. T. Hunter, $3.36; F. Jeune & Bro., Ltd., $1.50; Kelowna Courier, $4.40; P. S. King & Son, Ltd., $7.10; King's Printer, $7.718.96; Lands Department, $1.55; D. Leckie, 55c.; Lemon-Gonnason Co., Ltd., $204.57; H. N. Lidster, $10; Little & Taylor, $3; Macey-Abell Co., Ltd., $423.84; C. W. Mack, $39.47; E. B. Marvin & Co., $8.60; A. H. Maynard, $38.70; F. Mellor, $5; Mellor Bros., Ltd., $78.05; Melrose Co., Ltd., $10.95; News Publishing Co., Ltd., $32.10; F. W. Nolte & Co., $2.25; Oak Hall Clothing Co., Ltd., $2.10; Observer P. & P. Co., Ltd., $14.20; Okanagan Hardware Co., $1.65; Okanagan Tel. Co., $197.75; O.K. Stationery, $6.70; Ontario Agricultural College, $30; Ontario Department of Agriculture, $1.20; Pacific Drug Stores, Ltd., $5.87; F. Pagett, $2; G. Pilmer, $5.77; postage, $1,697.38; Price & Cousins, $1.40; E. G. Prior & Co., $58.94; Public Works Department,	
	Carried forward	$ 23,666 46 $ 11,245 00

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
5.	GENERAL OFFICE—*Continued.*		
	Brought forward	$ 23,666 46	$ 11,245 00
	Expenses—*Continued.*		
	Office Supplies, etc.—*Continued.*		
	$33.77; W. Reader, $7.60; Reliable Messenger & Delivery Co., $2; Reliable Transfer Co., $49.45; Remington Typewriter Co., Ltd., $126.40; Review Publishing Co., Ltd., $3; Scarborough Co. of Canada, Ltd., $10; T. Shotbolt, $2; Sidney & Islands Review, $5.40; J. Skinner's Book Store, $57.12; Smith & Champion, $9.75; D. Spencer, Ltd., $2.62; R. Sugars, $9; A. H. Steven, $60; Summerland Municipality, $21; Summerland Tel. Co., Ltd., $49.85; Sweeney-McConnell, Ltd., $4.25; W. S. Terry, $3.34; Times P. & P. Co., Ltd., $126.46; F. B. Turner, $3; United Typewriter Co., Ltd., $234.35; Vancouver Daily Province, $6; Vernon Hardware Co., Ltd., $1; Vernon News P. & P. Co., Ltd., $49.67; Victoria Gas Co., Ltd., 83c.; Victoria Typewriter Exchange, $10; Western Idea, Ltd., $2; Western Union Telegraph Co., $2.80; Wrigley Directories, Ltd., $90; G. F. Young, $16	15,537 08	
	Travelling Expenses:		
	W. J. Bonavia, $215.16; D. Warnock, $480.81	695 97	
	Total expenditure, General Office		39,899 51
6.	HORTICULTURAL BRANCH.		
	Salaries ($15,587.51):		
	Assistant Horticulturists:		
	W. T. Hunter .....$2,100 00 E. W. White $2,220 00		
	W. H. Robertson .. 2,220 00	$ 6,540 00	
	District Fruit Inspectors:		
	C. R. Barlow .....$1,620 00 R. A. Newman $1,440 00		
	H. H. Evans ..... 1,740 00 J. Tait 1,480 00	6,280 00	
	Clerks:		
	G. L. Foulkes .....$1,500 00 V. Tonks $1,000 00		
	J. J. Mowat 53 00	2,553 00	
	Temporary Assistance:		
	Assistant Field Inspector .....R. C. Woodward	214 51	
		$ 15,587 51	
	Expenses ($9,833.41):		
	Travelling Expenses:		
	T. M. Anderson, $25.15; C. R. Barlow, $812.69; H. H. Evans, $820.68; E. C. Hunt, $76.90; W. T. Hunter, $3,525.35; A. J. Mann, $35.45; R. A. Newman, $147.53; W. H. Robertson, $2,008.24; J. Tait, $637.76; V. Tonks, $21.85; E. W. White, $1,624.91; R. C. Woodward, $96.90	9,833 41	
	Total expenditure, Horticultural Branch		25,420 92
7.	INSPECTION AND FUMIGATION OF IMPORTED FRUIT, NURSERY STOCK, ETC.		
	Salaries ($10,205):		
	Inspector of Imported Fruit .....W. H. Lyne	$ 2,520 00	
	Assistant Inspectors of Imported Fruit, etc.:		
	M. L. Bird .....$1,600 00 W. J. Graham $1,780 00		
	D. Gavet ..... 1,800 00 H. F. Olds 1,600 00	6,780 00	
	Clerks and Stenographers:		
	G. Hawes .....$80 00 M. Hicks $825 00	905 00	
		$ 10,205 00	
	Expenses ($9,173.26):		
	Office Supplies, etc.:		
	B.C. Assay & Chemical Supply Co., $12; B.C.E.R. Co., $1.50; B.C. Telephone Co., Ltd., $58.35; C.P.R. Co., $7.56; Dominion		
	Carried forward	$ 10,205 00	$ 76,565 43

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
7.	INSPECTION AND FUMIGATION OF IMPORTED FRUIT, NURSERY STOCK, ETC.—*Continued.*		
	Brought forward	$ 10,205 00	$ 76,565 43
	Expenses—*Continued.*		
	Office Suplies, etc.—*Continued.*		
	Express Co., $4.55; King's Printer, $175.17; W. H. Lyne, $3.60; National Drug & Chemical Co., Ltd., $23.23; postage, $60; Renouf Publishing Co., $20.42; United Typewriter Co., $148.50; Vancouver Stationers, Ltd., $3.35; Wood, Vallance & Leggat, Ltd., $4.17; Wrigley Directories, $10	532 40	
	Travelling Expenses:		
	M. L. Bird, $94.73; W. J. Graham, $89.30; W. H. Lyne, $350.44; H. F. Olds, $37.83; W. Sandall, $2.55; H. T. Thompson, $8.50; G. E. Wilkerson, $42.25	625 60	
	Inspection Fees and Casual Labour:		
	F. Adie, $101.25; M. Banks, $78; A. Cameron, $3.75; M. Chamberlain, $25; C. A. Cock, $311.50; W. J. Cook, $210.75; E. Cavell, $355.50; H. Epps, $760.25; R. W. Grigor, $157.45; J. S. Heales, $20; G. S. Jermyn, $25; W. E. Johnson, $107.82; J. E. Jones, $506.50; R. D. Kerr, $8.75; J. Lane, $1,166.25; F. Leyster, $75; J. A. MacDonald, $12.50; A. W. MacLean, $175.28; H. G. Richdale, $13.20; J. C. Rykert, $25; W. Sandall, $72; W. S. Sandall, $230; A. J. Smith, $20; T. Steed, $43.75; J. H. Thompson, $81; H. F. Thompson, $10; H. E. Timlock, $168; W. Watkins, $268; A. K. Westland, $20; W. H. Whimster, $411.25; G. E. Wilkerson, $1,405.80; A. C. Wilson, $8.75; W. M. Young, $16.25	$ 6,893 55	
	Sundry Expenses:		
	B.C. Assay & Chemical Co., $94.25; B.C.E.R. Co., $8.16; B.C. Telephone Co., Ltd., $32.65; C.P.R. Co., $92.62; Ceperley, Rounsefell & Co., $73.50; Chapman's Motor Cartage, $9.46; Consolidated Optical Co., Ltd., $3; Dominion Express Co., 55c.; R. H. Eby, $110; Evans Coleman Wharf Co., $18.06; J. A. Flett, Ltd., $5.15; O. T. Goldsmith, $15; C. Jensen, $3.50; Lemon-Gonnason Co., Ltd., $2.70; McLennan, McFeely & Co., Ltd., $5.47; National Drug & Chemical Co., $52.90; W. N. O'Neil Co., Ltd., $8; E. G. Prior & Co., Ltd., $3.25; Reliable Messenger Co., $5; Storey & Campbell, Ltd., $6.75; Turnbull Bros., $6.56; Vancouver City Water Works, $7; Vancouver & Victoria Stevedore Co., $3.70; Victoria Motor Transport, $7; Victoria Wharf & Warehouse Co., $276; Wheeler, Reynolds & Stauffer, $235.25; Wood, Vallance & Leggat, Ltd., $36.23	1,121 71	
			8,015 26
	Total expenditure, Inspection and Fumigation of Imported Fruit, etc.		19,378 26
8.	CONTROL OF FRUIT PESTS, DISEASES, ETC.		
	Expenses ($10,914):		
	Labour, Material, Supplies, etc.:		
	Appleton Bros., $4.50; Armstrong Advertiser, $5.60; Capt. Askew, $64.30; Aspinwall Canadian Co., Ltd., $12.04; W. Ball, $59.35; Bean Spray Pump Co., $2,068.60; R. E. Berry, Ltd., $6.50; Brackman-Ker Milling Co., Ltd., $4.65; C. Brose, $7.20; E. R. Buckell, $939.42; J. J. Campbell, $12.63; C.P.R. Co., $328.50; Cascade Freighting & Towing Co., Ltd., $4.92; Collector of Customs, $406.40; H. V. Craig, $40; J. Dean, $15; J. L. Dobbin, $88.50; E. Dodds, $18.75; Dominion Express, $5.55; J. M. Edgar, $4.15; H. Ellison, $51; E. Fleming,		
	Carried forward		$ 95,943 69

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
8.	CONTROL OF FRUIT PESTS, DISEASES, ETC.—*Continued.*		
	Brought forward		$ 95,943 69
	Expenses—*Continued.*		
	Labour, Material, Supplies, etc.—*Continued.*		
	$31.45; J. S. Galbraith & Sons, $8.50; D. E. Gellatly & Sons, $24.75; J. H. Harragin, $48; J. Harwood, $7.25; A. Irving, $28.92; C. H. Jones & Son, Ltd., $27.74; Kelowna Courier, $8.80; Keremeos Hardware Co., $3.25; L. L. Kerry, $59.20; King's Printer, $12.95; S. Leiser & Co., Ltd., $19.84; G. MacDonald, $13.75; Megaw-Smithers Motor Co., $83.60; J. Meston & Co., Ltd., $6; M. S. Middleton, $83.85; C. W. Mohr, $4; National Drug & Chemical Co. of Canada, Ltd., $90.90; National Motor Co., Ltd., $1.30; Observer P. & P. Co., Ltd., $8; Okanagan Electric, $1.85; Okanagan Saddlery, $1; O. K. Stationery, $1; E. C. Paynter, $4; Penticton Electric Co., $4.20; Penticton Garage, $156.25; Penticton Herald, $10.80; postage, $1; E. G. Prior & Co., Ltd., 70c.; Review Publishing Co., Ltd., $26.60; W. H. Robertson, $6.70; A. Rogers & Co., $2.50; Salmon Arm Farmers' Exchange, Ltd., $57.50; R. E. Seeley, $21; J. F. Stainton, $7; H. T. Thompson, $5; Vernon Hardware Co., Ltd., $93.41; Vernon News P. & P. Co., Ltd., $93.35; Victoria Chemical Co., Ltd., $613.30; Watkin's Garage, $189.78; E. W. White, $3.45; T. R. Whitehead, $8.75; pay-list, $4,974.85	$ 11,003 60	
		$ 11,003 60	
	By cash	89 60	
	Total expenditure, Control of Fruit Pests, Diseases, etc.		10,914 00
9.	ENTOMOLOGY AND PLANT PATHOLOGY.		
	Salaries ($2,680):		
	Plant Pathologist .....J. W. Eastham	$ 2,280 00	
	Temporary Assistance .....G. S. Coward	400 00	
		$ 2,680 00	
	Expenses ($925.13):		
	Office and Laboratory Supplies, etc.:		
	Bishop & Christie, Ltd., $124; P. Blakiston's Son & Co., $2; B.C. Assay & Chemical Supply Co., Ltd., $33.95; Burr Office Supplies, 25c.; C.P.R. Co., $1.82; Chandler & Fisher, Ltd., $6.85; C. F. Clay, $6.60; Collector of Customs, $7.90; Cranham Photo Co., $5.60; Dominion Express Co., $1.15; E. J. Galloway, $5.50; Hudson's Bay Co., $6.45; P. S. King & Son, Ltd., $5.97; King's Printer, $108.25; Macmillan Co. of Canada, Ltd., $20; New York Bot. Garden, $4.69; Poole Drug Co., Ltd., $2.25; postage, $22; G. A. Roedde, Ltd., $16.50; Science Press, $6.50; D. Spencer, Ltd., $14.30	402 53	
	Travelling Expenses:		
	G. S. Coward, $20.40; J. W. Eastham, $502.20	522 60	
	Total expenditure, Entomology and Plant Pathology		3,605 13
10.	PRAIRIE MARKETS COMMISSIONER.		
	Salaries ($3,420):		
	Commissioner .....J. A. Grant	$ 2,520 00	
	Clerk and Stenographer .....E. Drummond	900 00	
		$ 3,420 00	
	Expenses ($4,915.55):		
	Office Supplies, etc.:		
	Addressograph Sales Co., $27.34; Alberta Government Telephones, $77.15; Alberta Steam Laundry, $7.50; American News		
	Carried forward	$ 3,420 00	$ 110,462 82

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
10.	PRAIRIE MARKETS COMMISSIONER—*Continued.*		
	Brought forward	$ 3,420 00	$ 110,462 82
	Expenses—*Continued.*		
	Office Supplies, etc.—*Continued.*		
	Co., Ltd., $13.71; W. Anderson, $27; Ashdown Hardware Co., $1.35; T. H. Blow, $247.50; C. Brooks, $24; Calgary Electric Light Co., $17.57; Calgary Towel Supply Co., $9; Calgary Water Power Co., $1.80; C.P.R. Co., $87.31; Canniff-O'Brien Printing Co., $1,874.27; R. Chapman, $10; Clarke Stuart Co., $1.50; W. H. Coupland, $16; D. L. Dick, $33; Dominion Express Co., $6.45; J. A. Grant, $1.95; G.N.W. Telegraph Co., $1.40; Greenfields Auction Mart, $1.75; Growers' Sales Agency, $7.31; Herald Brokerage Co., $1; Hudson's Bay Co., $25.80; H. G. Hunt, $1; King's Printer, $31.70; J. J. Liard, $2.25; W. Maclean, $25; J. Maher, $6; Morning Albertan, $4; C. W. McKelvie, $30; postage, $605.30; F. H. Steele, $31.50; S. H. Stevens, $31.50; A. C. Taylor, $30; United Typewriter Co., $1; West & Brown, $1; Wilson Stationery Co., $11.35; R. Wilson, $36; Wrigley Directories, Ltd., $10	3,379 26	
	Travelling Expenses:		
	J. A. Grant	1,536 29	
	Total expenditure, Prairie Markets Commissioner		8,335 55
11.	COAST MARKETS COMMISSIONER.		
	Salaries ($5,475):		
	Commissioner ..... R. C. Abbott	$ 1,150 00	
	Clerks and Stenographers:		
	L. O. Graham .....$307 50 F. M. Lawson .....$ 630 00	937 50	
	Potato Inspectors:		
	H. Gutteridge .....$1,720 00 A. Irving $1,500 00		
	E. Hutcherson ..... 165 00 H. T. Thompson ... 2 50	3,387 50	
		$ 5,475 00	
	Expenses ($2,993.52):		
	Office Supplies, etc.:		
	R. C. Abbott (sundry accounts), $91.84; B.C. Telephone Co., $105.52; Campbell's Storage, $1.50; C.P.R. Telegraph Co., $43.80; Clarke & Stuart, $461.05; Columbia Paper Co., Ltd., $187.87; Giant Powder Co., $50; G. Johnson, $5; Johnson & Reeve, $525; King's Printer, $6.90; postage, $60.50; United Typewriter Co., Ltd., $7; Wrigley Directories, Ltd., $10	1,555 98	
	Travelling Expenses:		
	R. C. Abbott, $623.95; H. Gutteridge, $312.45; E. Hutcherson, $184.05; A. Irving, $307.84; H. T. Thompson, $9.25	1,437 54	
	Total expenditure, Coast Markets Commissioner		8,468 52
12.	LIVE STOCK BRANCH.		
	Salaries ($35,803.33):		
	Live Stock Commissioner .....W. T. McDonald	$ 2,760 00	
	Chief Poultry Instructor .....J. R. Terry	2,040 00	
	Dairy Commissioner .....H. Rive	2,520 00	
	Dairy Instructor .....F. Overland	340 00	
	Chief Soil and Crop Instructor ..W. Newton	1,933 33	
	Soil and Crop Instructor .....C. Tice	1,800 00	
	Veterinary Inspector .....A. Knight	2,220 00	
	Assistant Veterinary Inspectors:		
	W. W. Alton .....$1,980 00 D. H. McKay $1,980 00		
	W. T. Brookes .... 1,980 00 M. Sparrow 1,980 00		
	B. R. Ilsley ..... 1,980 00 S. A. K. White ... 1,980 00		
	J. D. Macdonald ... 1,980 00	13,860 00	
	Brands Inspector .....R. Cahilty	1,600 00	
	Carried forward	$ 29,073 33	$ 127,266 89

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
12.	LIVE STOCK BRANCH—*Continued.*		
	Brought forward	$ 29,073 33	$ 127,266 89
	Salaries—*Continued.*		
	Milk-testers:		
	E. Rive ..... $600 00 J. B. Watson $1,200 00	1,800 00	
	Clerks:		
	D. Johnson ..... $ 560 00 G. Pilmer $1,720 00		
	R. Murray ..... 1,276 00 G. H. Thornberry .. 500 00	4,056 00	
	Stenographers:		
	E. A. Boxall ..... $550 00 J. A. Smith $39 03	589 03	
	Temporary Assistance:		
	G. Bryant ..... $ 24 00 M. Switzer $48 22		
	C. Carfrae ..... 24 00 R. Wise 24 00		
	T. Heslop 164 75	284 97	
	Expenses ($20,843.74):	$ 35,803 33	
	Travelling Expenses:		
	W. W. Alton, $1,621.80; W. T. Brookes, $1,205.60; R. Cahilty, $395.00; T. Heslop, $117.75; B. R. Ilsley, $1,815.60; A. Knight, $1,904.69; J. D. Macdonald, $1,581.45; W. T. McDonald, $1,773.03; D. H. McKay, $1,507.20; W. Newton, $1,213.83; F. Overland, $153.60; G. Pilmer, $216.83; H. Rive, $1,144.42; A. H. Shotbolt, $3.50; M. Sparrow, $1,924.20; J. R. Terry, $982.56; C. Tice, $1,585.85; R. E. Upton, $20; S. A. K. White, $1,676.83	20,843 74	
	Total expenditure, Live Stock Branch		56,647 07
13.	STATISTICS.		
	Salaries ($1,490):		
	Statistician ..... G. H. Stewart	$ 1,420 00	
	Temporary Assistance ..... M. Moffat	70 00	
	Expenses ($2,195):	$ 1,490 00	
	Office Supplies, etc.:		
	T. A. Airey, $15; G.N.W. Telegraph Co., $2.05; A. W. Heath, $25; King's Printer, $869.65; postage, $70; Wrigley Directories, Ltd., $10	991 70	
	Travelling expenses:		
	G. H. Stewart	651 30	
	Crop Report Fees:		
	Pay-list	552 00	
	Total expenditure, Statistics		3,685 00
14.	AGRICULTURAL AND HORTICULTURAL INSTRUCTORS AND AGRICULTURAL REPRESENTATIVES, ETC.		
	Salaries ($12,351.32):		
	District Agriculturist ..... G. C. Hay	$ 1,920 00	
	Assistant Horticulturist ..... E. C. Hunt	2,100 00	
	District Field Inspectors:		
	A. J. Mann ..... $1,100 00 R. F. Murray $270 00	1,370 00	
	Assistant Field Inspector ..... T. M. Anderson	1,500 00	
	District Agriculturists and Field Inspectors:		
	P. C. Black ..... $1,125 00 C. B. Twigg $1,620 00	2,745 00	
	Clerks and Stenographers:		
	M. G. Burnyeat ..... $300 00 A. E. Hill $600 00	900 00	
	Stenographers:		
	D. Ashdown ..... $186 66 M. Lauder $900 00		
	I. C. Glenn ..... 174 66 K. McRae 105 00		
	M. A. Hay ..... 30 00 A. P. Woodward 420 00	1,816 32	
	Carried forward	$ 12,351 32	$ 187,598 96

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
14.	AGRICULTURAL AND HORTICULTURAL INSTRUCTORS AND AGRICULTURAL REPRESENTATIVES—*Continued.*		
	Brought forward	$ 12,351 32	$ 187,598 96
	Expenses ($9,625.67):		
	Office Supplies, etc.: American News Co., Ltd., $25.16; Bank of Montreal, $2.50; P. C. Black, $11.60; B.C. Assay & Chemical Supply Co., Ltd., $6.50; B.C. Telephone Co., Ltd., $104.90; C.P.R. Co., $39.62; Chittenden & McKeen, $7.80; Chong (Chinaman), $36; Chowne Chemical Co., Ltd., $3.92; Comox Argus, $7.50; Cowichan Agricultural Society, $237.80; Cowichan Leader, $16.15; Dominion Government Telegraph Service, $12.35; Fong, $2.40; G. J. Hardy, $15; G. Harris, $255; W. Huag & Son, $15.85; City of Kamloops, $5.10; Kamloops Telegram, $20.75; Kelowna Board of Trade, $100; City of Kelowna, $13.67; Kelowna Farmers Institute, $105; King's Printer, $175.84; Leckie Hardware, Ltd., $1.40; R. H. Lee, $230; W. W. Loane, $33.95; Mrs. Loveridge, $3.50; Macbeth & Miller, Ltd., $8.04; Macey-Abell Co., Ltd., $335.15; A. J. Mann, $7.25; Marlatt & Mackenzie, $1.65; J. Mathers, $8; Morrison-Thompson Hardware Co., Ltd., $8.45; R. Mackay, $2; J. C. McArthur, $3; A. McClougan, 75c.; Okanagan Building & Trading Co., Ltd., $3; Okanagan Fruit Products Co., $9; Okanagan Grocery, $3; Okanagan Telephone Co., $108.20; Ottawa Newspaper Subscription Bureau, $1.50; Corporation of the District of Penticton, $27.03; postage, $196.40; H. F. Prevost, $26.60; Remington Typewriter Co., Ltd., $305.25; R. E. Seeley, $10; A. F. Shepherd, $5; J. Silcock, $7.25; J. E. Stone, $2; A. H. Steven, $12; Summerland Telephone Co., $5.65; A. C. Taylor & Co., $56.15; W. R. Thomson, $23.11; Underwood Typewriter Co., Ltd., $135.05; Vancouver Daily Province, $4; Wrigley Directories, Ltd., $30	2,833 74	
	Travelling Expenses: T. M. Anderson, $586.49; P. C. Black, $400.75; J. E. Britton, $283.40; W. M. Fleming, $265.55; G. C. Hay, $1,520.40; S. H. Hopkins, $1,465.99; E. C. Hunt, $845.43; A. J. Mann, $447.78; R. P. Murray, $141.59; B. Robinson, $375.80; C. B. Twigg, $458.75	6,791 93	
	Total expenditure, Agricultural and Horticultural Instructors and Agricultural Representatives		21,976 99
15.	TUBERCULAR CATTLE, COMPENSATION, SUPPLIES, TEMPORARY ASSISTANCE, ETC.		
	Compensation for Tubercular Cattle destroyed ($35,898.20): W. B. Adams, $75; G. M. Aldous, $100; R. G. Amos, $30; R. Andrew, $50; P. Auchinachie, $40; H. A. Augustine, $50; T. Austin, $200; H. Bain, $512.50; R. H. Baird, $100; W. J. Barber, $50; P. H. Bartindale, $50; J. Bathgate, $200; A. Beanline, $50; Beck & Arnold, $250; L. T. Beharrell, $150; J. Benjamin, $50; A. E. Bennett, $50; G. H. Bent, $50; J. W. Berry & Son, $100; Berry & Prescott, $50; A. Blackburn, $50; D. Blaney, $50; W. A. Bloom, $50; S. Bobins, $100; E. L. Boultbee, $50; T. Boyles, $100; B. J. Brandith, $50; M. Brobrisky, $150; P. Brodie, $50; H. R. Brown, $50; J. Brown, $100; Brown Bros., $90; J. Brynelson, $50; W. H. Buckingham, $300; J. Bull, $150; D. Burns, $150; J. Burritt, $150; A. I. Campbell, $150; E. J. Campbell, $100; T. Campbell, $50; G. A. Carlson, $50; E. B. Carr, $150; S. A. Chadsey, $200; W. Chadsey, $45; Chapman & Fleming, $50; F. Charlesworth, $100; J. Christy, $100; J. H. Christy, $930; G. Clark, $200; J. Clark, $50; S. Cleave, $50; W. H. Clemence, $300; R. Clements, $50; Clough & Whittock, $50; C. Collett, $40; E. L. Cooney, $50; C. S. Conrod, $50; L. E. Corbett,		
	Carried forward		$ 209,575 95

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF AGRICULTURE—*Continued.*

15. TUBERCULAR CATTLE, COMPENSATION, SUPPLIES, TEMPORARY ASSISTANCE, ETC.—*Continued.*

Brought forward ..... $ 209,575 95

Compensation for Tubercular Cattle destroyed—*Continued.*
$50; C. Cossirn, $50; F. J. Couthard, $250; A. Cruickshank, $50; J. J. Curl, $100; R. Dall, $250; A. Davie, $400; E. Davies, $100; E. Deptford, $150; R. J. Denny, $50; J. Dobbs, $100; D. Dommick, $50; A. A. Dougan, $50; J. J. Dougan, $50; W. J. Dry, $50; A. E. Dunville, $450; T. A. Dunville, $650; L. M. Dunsmuir, $100; C. Ehl, $50; P. H. Eraut, $150; J. A. Evans, $50; G. Farman, $50; W. Farris, $50; J. Fetherston, $100; L. Fish, $50; J. J. Fisher, $100; P. W. Fisher, $250; T. H. Fleming, $250; N. D. Fletcher, $50; J. P. Follis, $100; T. E. Foran, $100; S. H. Ford, $50; F. Forrest, $50; W. Forster, $50; H. Forster, $50; Fox Bros., $495; Frowning & Robertson, $50; J. H. Fry, $50; J. J. Fry, $100; R. H. T. Gahan, $50; J. Gardner, $50; E. E. Gark, $100; J. D. German, $50; J. Gilmore, $125; G. Gilson, $650; C. Goddard, $200; A. Gordon, $100; L. Gordon, $60; G. Gough, $50; F. J. Graham, $50; Granby Mine Co., $50; R. M. Graur, $100; A. Green, $50; K. Gregvireff, $250; M. Gurgich, $50; T. Hall, $50; W. J. Hammond, $100; W. Hampton, $280; P. C. Hardy, $50; E. G. Harper, $100; J. Harrett, $100; G. H. Harris, $50; F. Hart, $50; H. Harvey, $50; G. A. Heinekey, $50; G. P. Heinekey, $50; H. Helgeson, $50; E. Henshaw, $50; G. Hibbard, $50; F. F. Higgs, $50; W. M. Higgs, $50; Hilliard Bros., $50; M. Hodgson, $80; F. Holloway, $50; W. Holmes, $100; G. Holmwood, $50; G. E. C. Hooper, $50; C. E. Hope, $100; J. B. Howes, $50; W. Huggins, $50; A. Hughes, $50; J. N. Hughes, $50; A. E. Hull, $100; A. Hutcheson, $50; H. D. Hyder, $50; J. Jackson, $50; C. H. Jacobson, $50; F. C. Johnston, $50; J. Johnston, $50; C. Jones, $50; O. M. Jones, $50; A. J. Joyal, $100; M. E. Kays, $10; S. W. Keith, $100; Kellaway, Bros., $50; Kennedy Bros., $50; J. E. Kerr, $50; F. Kipp, $100; A. M. Kirk, $100; E. Kometz, $50; F. H. W. Lawless, $50; J. Lawrie, $140; P. le Clech, $150; C. Lehman, $350; A. W. Lervington, $250; J. E. Leslie, $50; M. Linnell, $50; O. Lloyd, $150; H. Logan, $50; J. B. Loney, $50; C. Love, $50; W. Love, $40; J. Lozza, $50; A. P. Luxton, $50; H. A. Macdonald, $50; J. Mack, $50; R. Mackay, $50; F. W. Magar, $150; J. Magar, $50; J. H. Malcolm, $50; E. Marcotte, $50; A. Massey, $50; L. L. Maynard, $250; A. E. Meads, $50; R. Mercer, $50; G. Merino, $50; W. D. Michell, $840; J. W. Miller, $50; W. M. Miller, $50; R. D. Mitchell, $50; F. Moore, $50; W. Moore, $50; E. G. Morgan, $350; G. M. Morrison, $50; McK. Morrison, $100; T. Mould, $50; W. Mudge, $50; Mufford Bros., $100; D. Mull, $250; J. E. Murchison, $50; S. Murphy, $100; F. J. Murton, $50; J. Mutrie, $50; J. McCallan, $50; G. McClelland, $100; A. McIvor, $100; J. W. McGillivray, $50; G. McLean, $85; A. W. McLelan, $50; G. W. McLelan, $50; H. McLeod, $100; G. W. McLennan, $50; McCrae Bros., $40; L. McRae, $100; C. E. Nelson, $150; N. Nowell, $80; J. A. Ogden, $50; C. N. Oldfield, $100; J. B. Orr, $130; Palmer & Co., $50; M. Paterson, $50; A. R. Paull, $100; F. B. Pemberton, $250; W. Pennington, $650; W. J. Pinniger, $50; A. H. Playle, $50; A. R. Pomeroy, $50; C. Poncelet, $50; E. W. Povey, $150; A. I. Price, $50; J. Pulay, $100; W. Raines, $150; J. Rainey, $50; E. & T. Raper, $250; A. H. Raymer, $40; G. S. Reade, $150; Reid Bros., $200; R. Reynolds, $50; J. Richards, $100; R. Richman, $50; H. Ricketts, $50; G. C. Ridley, $105; G. Ridley, $40; R. P. Rithet, $100; E. F. Robinson, $50; G. Rogers, $200; L. Rolston, $150; J. E. Rose, $100; H. C. Ross, $50; M. Rothstein, $40; G. Ryan, $50; E. Sabourin, $50; H. O. Sacht, $50; J. Sayward, $100; A. Sewell, $50; J. Shaw, $50; J. Signorelli, $50; E. Simms, $50; E. R.

Carried forward ..... $ 209,575 95

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
15.	TUBERCULAR CATTLE, COMPENSATION, SUPPLIES, TEMPORARY ASSISTANCE, ETC.—*Continued.*		
	Brought forward		$ 209,575 95
	Compensation for Tubercular Cattle destroyed—*Continued.* Simpson, $50; W. Simpson, $100; Saran Singh, $100; Basant Singh, $50; Ram Singh, $50; Tarka Singh, $100; I. Smiley, $100; A. Smith, $50; Soldiers' Settlement Board, $200; R. Sparrowhawk, $100; G. Spencer, $100; F. M. Spencer, $50; M. C. Sprott, $50; H. N. Springer, $50; J. Stapleton, $95; R. Stevenson, $50; St. Joseph's Hospital Farm, $275; R. W. Stewart, $50; L. Stickley, $50; Sullivan Bros., $148.20; A. C. Sutton, $50; M. G. Swan, $50; A. Swanston, $50; W. Swinerton, $200; A. Taggart, $50; G. Taylor, $50; W. J. Taylor, $200; K. Thomas, $50; C. R. Throp, $50; C. Tomlinson, $50; F. Townsend, $385; W. H. Townsend, $200; H. Trites, $250; H. A. Trites, $150; J. Turner, $677.50; J. Valley, $50; H. Vickery, $1,250; Vickery & Fisher, $400; J. Volpatti, $50; A. Waldron, $100; A. E. Wales, $150; G. W. Walkem, $100; A. Walker, $50; J. R. Walker, $50; W. B. Walker, $100; M. Walters, $50; H. Way, $150; J. F. Webb, $100; G. F. Weir, $50; J. D. Wetherall, $150; A. Weydant, $50; W. Whiting, $50; C. Whittaker, $50; L. Whittaker, $50; H. R. Whitworth, $150; R. Wichman, $50; T. Wilkson, $50; W. A. Willett, $100; A. E. Williams, $50; A. B. Wilson, $50; J. Wilson, $305; M. Wilson, $75; S. G. Woolley, $50; F. Worrell, $400; C. Yockney, $100; A. Young, $50; M. C. Young, $50; W. C. Young, $50; A. Zink, $200; F. Zink, $95; J. Zink, $50	$ 35,898 20	
	Sundry Supplies ($1,700.31): H. J. Barber, $4.50; B. C. Stevens Co., Ltd., $11.87; Campbell's Drug Store, $5.80; Chandler & Fisher, Ltd., $1.50; Collector of Customs, $20.72; S. H. Dana, $175.47; W. Hilton, $6; Kamloops Press, Ltd., $12; King's Printer, $34.45; Lederle Antitoxin Laboratory, $1,415; H. J. Levy, $8; MacPhail-Smith Co., $2.50; P. B. Willits, $2.50	1,700 31	
	Total expenditure, Tubercular Cattle, Compensation, Supplies, Temporary Assistance, etc.		37,598 51
16.	AUTOMOBILES AND ACCESSORIES, ETC.		
	W. Hargreaves, $998.30; Knight-Higman Motors, Ltd., $25; National Motor Co., Ltd., $3,699.79; Revercomb Motor Co., $30; Watkin's Garage, $1,021.30	$ 5,774 39	
	Total expenditure, Automobiles and Accessories, etc.		5,774 39
17.	AGRICULTURAL FAIRS, ETC.		
	Grants in Aid of Prize-lists ($32,018): Abbotsford-Sumas, $165; Agassiz, $171; Alberni, $88; Aldergrove, $93; Armstrong and Spallumcheen, $925; Arrow Lakes, $114; Bulkley Valley, $500; Burquitlam, $150; Chilliwack, $990; Cobble Hill, $42; Comox, $300; Coquitlam, $168; Cowichan, $783; Creston, $159; Delta, $281; Elk Valley, $136; Forest Grove, $50; Fruitvale, $60; Golden, $250; Gibson's Landing, $25; Islands, $83; Kamloops, $1,135; Kelowna, $391; Kitsumgallum, $100; Ladysmith, $177; Langley, $330; Lumby, $100; Maple Ridge, $368; Matsqui, $186; Mission, $263; Nanoose, $80; Nelson, $325; North and South Saanich, $300; North Vancouver, $86; Northern B.C., $500; Penticton, $410; Pritchard, $128; Richmond, $300; Royal (New Westminster), $8,304; Salmon Arm, $400; Slocan Lake, $132; Slocan Valley, $150; Terrace, $100; The District of Surrey, $248; Trail, $393; Vancouver, $6,356; Victoria, $5,000; Windermere, $223	$ 32,018 00	
	Carried forward	$ 32,018 00	$ 252,948 85

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
17.	AGRICULTURAL FAIRS—*Continued.*		
	Brought forward	$ 32,018 00	$ 252,948 85
	Grants in Aid of Poultry-shows ($4,250): Central Park, $262.20; Chilliwack, $342.30; Fernie, $262.20; Nelson, $282.20; New Denver, $242.20; North Okanagan, $242.20; Penticton, $262.20; Salmon Arm, $262.20; Vancouver, $1,500; Victoria, $342.30; Windermere, $250	4,250 00	
	Judging at Fall Fairs ($3,945.46): H. P. Allberry, $183.35; F. J. Bishop, $30.45; L. B. Bonavia, $158.10; A. M. Carter, $223.95; J. S. Chalmers, $41.95; T. W. Edwards, $427.10; G. E. Goddard, $91.80; E. Greenwood, $142.60; W. M. Higgs, $100.76; R. S. Inglis, $35.10; C. G. Johnson, $20.05; P. W. Anketel Jones, $297.55; R. Kannagel, $31.25; J. Kerr, $6; W. Kirkham, $54.12; E. McC. Mottley, $24.15; K. McBean, $9.20; A. B. McGorman, $232; H. D. Parker, $25; J. B. Partington, $82.02; S. Ransom, $19.50; H. D. Reid, $236.85; W. Stonehouse, $168.60; J. Thompson, $192.75; J. A. Turner, $234.21; J. Turner, $159.45; H. E. Waby, $299.10; J. A. Wadsworth, $22.65; W. Walker, $87.15; C. H. Wise, $84.15; S. A. Woolley, $7; B. Wright, $217.55	3,945 46	
	Sundry Expenses ($211.28): Canadian Express Co., $22.66; Central Transfer Co., $6.17; G. A. Hankey & Co., Ltd., $29.25; F. Jeune & Bro., Ltd., $153.20	211 28	
	Horticultural and Entomological Convention ($100): Vernon	100 00	
	Seed Fair, Victoria ($374): Pay-list (prize-winners)	374 00	
	Total expenditure, Agricultural Fairs, etc.		40,898 74
18.	FARMERS' INSTITUTES, ETC.		
	Grants in Aid ($4,173): Alberni, $21; Aldergrove, $52; Arrow Lakes, $33; Arrow Park, $31; Baynes, $22; Bella Coola, $21; Cariboo, $56; Central Park, $67.50; Chase, $58; Chilliwack, $54; Columbia Valley, $22; Comox, $68; Coombs, $59; Coquitlam, $76; Cortes Island, $48; Cowichan, $76; Cranbrook, $44; Crawford Bay, $47; Delta, $72; Denman Island, $43; Derochi, $40; Dome Creek, $23; Dunster, $27; Eagle River, $40; Eaglet Lake, $20; Elk Valley, $48; Endako, $61.50; Evergreen, $24; Forest Grove, $40; Fort Fraser, $22; Glenside, $20; Golden, $9.50; Graham Island, $31; Graham Island East, $38; Grand Forks, $56; Gray Creek, $25; Harrop, $62.50; Howe Sound, $54.75; Ioco, $18; Islands, $87.50; Kamloops, $39; Kent, $53; Kitimat, $15; Kitsumgallum, $53.50; Kootenay Lake, $27; Kootenay River, $53.50; Langley, $30; Lasqueti, $24; Lytton, $55.50; Magna Bay, $36; Mapes, $22; Maple Ridge, $67.50; Martin's Prairie, $28.50; Matsqui, $41.50; Metchosin, $66; Moyie Valley, $24; Mud River and Beverley, $26; McBride, $39; Nanaimo-Cedar, $54; Nechako, $76; Needles, $41; Newlands, $37; Nicola, $45; North Bend and Keefers, $12; Northern Okanagan, $24; North Vancouver, $45; Pender Island, $31; Powell River, $37; Procter, $57; Quadra, $9; Revelstoke, $31; Robson, $42; Rock Creek, $21; Rose Hill, $43; Rossland, $30; South Saanich, $68.50; Sayward, $46; Shawnigan, $51.50; Shirley, $87; Similkameen, $54; Skidegate, $17; Smithers, $30; Sooke, $46; South Bulkley, $13; South Kootenay, $52.50; South Slocan, $25; Spallumcheen, $60.25; Squamish, $25; Strawberry Hill, $56.50; Summerland, $19; Surrey, $63.50; Upper Skeena, $37; Victoria, $94; Westbank, $34; Westside Okanagan, $30; Whaletown, $24; White Creek Valley, $29; Whonnock, $50.50; Willow Point, $43; Windermere, $62.50	$ 4,173 00	
	Carried forward	$ 4,173 00	$ 293,847 59

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
18.	FARMERS' INSTITUTES, ETC.—*Continued.*		
	Brought forward	$ 4,173 00	$ 293,847 59
	Purchase and Transportation of Pure-bred Stock ($2,622.14): G. R. Ball, $65; C.P.R. Co., $6.75; Bursar, Colony Farm, $301.80; J. Cook & Son, $218.30; Dominion Experimental Farm, $45.70; C. E. Hope, $150; C. de Jong, $16.05; Marine Navigation & Engineering Co., Ltd., $5.50; F. L. Mitchell, $557; J. F. Moore, $125; Needles Farmers' Institute, $16; Newgate and District Farmers' Institute, $7.50; H. C. Oldfield, $43.50; Pacific Transfer Co., Ltd., $9; Shannon Bros., $173; J. H. Teasdale, $298.70; J. Turner, $150; R. P. Vigors, $79.40; J. G. Whiteacre, $150; A. Zink, $203.94	2,622 14	
	Expenses attending Conferences ($2,214.28): J. Bailey, $141.55; J. Brearley, $363.90; A. D. Clyde, $212.75; J. B. Charleson, $159.15; W. Harrison, $217.40; G. H. Outram, $341.21; A. B. Smith, $60.75; A. H. Smith, $255.55; A. Taylor, $251.77; L. E. Taylor, $117.75; W. H. Thornborrow, $92.50	2,214 28	
	Sundry Expenses ($807.29): B.C. Telephone Co., Ltd., $1.10; Canadian National Live Stock Records, $15.75; C.P.R. Telegraph Co., $6.73; Civil Service Commission, $18; Dominion Government Telegraph Service, $2.01; Empress Hotel, $20; E. Fleming, $5.25; G.T.P. Rly. Co., $1; Holstein-Friesian Association, $2; King's Printer, $419.45; Macey-Abell Co., Ltd., $7; postage, $275; Registrar of Joint-stock Companies, $19; M. Windsor, $15	807 29	
	Secretary of Institutes ($1,204.66): C. E. Whitney-Griffiths, 92 days at $5, $460; expenses, $744.66	1,204 66	
		$ 11,021 37	
	By cash	4 15	
	Total expenditure, Farmers' Institutes, etc.		11,017 22
19.	WOMEN'S INSTITUTES, ETC.		
	Salaries ($1,280): O. Hayes .....$320 00 V. S. MacLachlan ...$960 00	$ 1,280 00	
	Grants in Aid of Flower-shows ($519): Agassiz, $9; Armstrong, $19.25; Burquitlam, $5.50; Chilliwack, $13.50; Central Park, $10.50; Colwood, $8.75; Cowichan, $25.25; Cranbrook, $18.75; Crawford Bay, $5.50; Denman Island, $7.25; Garden City, $8; Haney, $14; Harrop, $5.50; Hatzic, $11.75; Hazelmere, $8.25; Kalamalka, $9; Kaslo, $16; Kelowna, $23.75; Kootenay Valley, $4.25; Lake Hill, $4.50; Langford, $6.75; Langley Fort, $6.50; Matsqui, $15; Mission City, $10; Nakusp, $12.25; Naramata, $12.75; Nelson, $26.75; New Denver, $9.25; North Saanich, $8.50; Oyster, $13.25; Parksville, $10.25; Peachland, $14.50; Penticton, $10; Rock Creek, $10.75; Rutland, $8.75; Salmon Arm, $12; Salmon River Valley, $5; Sooke and Otter, $6.25; South Saanich, $7.50; Strawberry Vale, $12.50; Summerland, $9.75; Surrey, $9; Tappen, $11.25; Tynehead, $7; Upper Sumas, $6.50; West Saanich, $7.75; West Summerland, $13.50; Willow Point, $7.50	519 00	
	Membership Allowance ($1,829.25): Agassiz, $18; Armstrong, $38.50; Arrow Park, $12; Atchelitz, $11.50; Barriere, $9.50; Bonnington and South Slocan, $19.50; Burquitlam, $22; Central Park, $21; Chilliwack, $27; Cobble Hill, $30; Colwood, $35; Comox, $9; Coquitlam, $12; Cowichan, $75.25; Cranbrook, $37.50; Crawford Bay, $22; Creston, $42; Denman Island, $14.50; Garden City, $16; Gordon Head, $9.50; Haney, $53; Harrop, $11; Hatzic, $47; Hazelmere, $16.50; Kalamalka, $36; Kaslo, $32; Kelowna, $47.50; Kootenay Valley, $12.75; Lake Hill, $18; Langford, $13.50; Langley Fort, $26; Langley Triangle, $13; Matsqui, $30; Metchosin, $8; Mission		
	Carried forward	$ 1,799 00	$ 304,864 81

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
19.	WOMEN'S INSTITUTES, ETC.—*Continued.*		
	Brought forward	$ 1,799 00	$ 304,864 81
	Membership Allowance—*Continued.* City, $20; Mount Ida, $22; Mount Lehman, $19.50; Nakusp, $24.50; Naramata, $25.50; Nelson, $51.75; New Denver, $37; North Saanich, $34; Okanagan Centre and Woods Lake, $20; Oyster, $26.50; Parksville, $20.50; Peachland, $29; Penticton, $40; Pitt Meadows, $35; Robson, $24; Rock Creek, $21.50; Rutland, $17.50; Salmon Arm, $48; Salmon River Valley, $10; Shawnigan, $38; Silver Creek, $7.50; Similkameen, $41; Sooke, $12.50; South Saanich, $15; South Saltspring Island, $16.50; South Vancouver, $25; Strawberry Hill, $20; Strawberry Vale, $50; Summerland, $39; Surrey, $18; Tappen, $22.50; Tynehead, $14; Upper Sumas, $13; Vernon, $26; West Saanich, $31; West Summerland, $52; Willow Point, $16	1,829 25	
	Expenses attending Conferences and Advisory Board, etc. ($1,934.04): I. Arthur, $9.50; T. Ball, $21.20; E. A. Berkett, $9; G. M. Bernard, $21.15; C. M. Bowman, $25.60; H. A. S. Bowsher, $25.20; L. C. Brodie, $17.25; J. Brooks, $26; M. Bruce, $13.55; I. Burritt, $9.70; D. B. Butchart, $28.20; J. S. Chalmers, $122.80; F. A. Clark, $16.90; J. I. Croft, $9.94; D. H. Currie, $10.80; B. M. Deacon, $11; S. Donnelly, $23.60; E. P. Dusterhoeft, $12.65; F. B. Fadden, $112.25; I. D. Fearn, $10.75; A. H. Foster, $48.65; A. E. Fowler, $30.70; G. M. Fripp, $11.85; I. Goodfellow, $9; J. Gourlay, $16.30; I. Gunn, $22.50; E. M. C. Guy, $9.60; M. Hamilton, $17.30; B. Hawkins, $14.75; E. C. Helgeson, $10.25; G. G. Henderson, $14.95; A. Hepburn, $24.35; D. O. Hughes, $14; M. M. Huntley, $9.25; L. M. Kelley, $11; H. Lawrie, $13; L. Lytle, $23.50; F. Martin, $19.55; J. A. Maxwell, $24.20; I. Miles, $11.50; M. Millard, $28.40; I. Mohr, $16.75; H. Morrison, $10.90; A. Moseley, $30.55; B. M. MacKay, $19.80; P. O. McCall, $3.95; D. McCallum, $24; R. McConnell, $16; H. McGregor, $8.70; Z. M. McGregor, $125.35; B. A. McMillan, $14.40; M. Neal, $12.75; A. M. Phinney, $11.10; E. L. H. Pixton, $19.60; J. H. Porter, $27.10; L. F. Quance, $20.80; G. L. Raven, $12; M. I. Reekie, $13.45; A. Robertson, $12.40; E. M. P. Robinson, $10.25; C. Sanderson, $11.60; M. E. Service, $12; B. Sharpe, $8.50; G. Sharpe, $9.90; T. H. Simonds, $11.40; M. J. Simpson, $10.50; M. B. Smith, $9; P. E. Smith, $9; M. Stainton, $20.15; G. Sweeten, $27.90; E. W. Thorburn, $34.30; E. Todd, $14.05; T. D. Tucker, $9.65; C. J. Verry, $9.35; G. Watson, $15; M. R. Watt, $360.75; A. Whittaker, $5.50; F. M. Wright, $24	1,934 04	
	Travelling Expenses ($574.70): O. E. Hayes, $67.95; V. S. MacLachlan, $506.75	574 70	
	Sundry Expenses ($1,459.84): American News Co., Ltd., $80.92; American Public Health Association, $8.67; B.C. Saddlery Co., Ltd., $28.60; B.C. Telephone Co., Ltd., 30c.; C. E. Burch, $17; A. M. Carter, $10; Compressed Gas Co., Ltd., $14.52; J. I. Croft, $5; Fletcher Bros., $20; Mrs. Godman, $15; T. N. Hibben & Co., $224.63; D. S. Jones-Evans, $15; W. G. Kidman, $17.80; King's Printer, $491.65; H. McGregor, $23.20; E. H. McLean, $14; G. Osborn, $2; J. B. Partington, $14.80; postage, $145; G. L. Raven, $10.50; Registrar of Joint-stock Companies, $275; S. A. Speers, $26.25 ...	1,459 84	
		$7,596 83	
	By Olive Hayes's salary for March, 1920, charged Vote 18, fiscal year 1919–20, cheque subsequently cancelled	150 00	
	Total expenditure, Women's Institutes, etc.		7,446 83
	Carried forward		$ 312,311 64

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*		
	Brought forward		$ 312,311 64
20.	BRITISH COLUMBIA BEE-KEEPERS' ASSOCIATION.		
	B.C. Bee-keepers' Association, $250; Honey-producers Association, $250		500 00
21.	BRITISH COLUMBIA DAIRYMEN'S ASSOCIATION.		
	Grant		2,500 00
22.	BRITISH COLUMBIA ENTOMOLOGICAL ASSOCIATION.		
	Grant		250 00
23.	BRITISH COLUMBIA FRUIT-GROWERS' ASSOCIATION.		
	Grant		3,000 00
24.	BRITISH COLUMBIA GOAT-BREEDERS' ASSOCIATION.		
	Grant		750 00
25.	BRITISH COLUMBIA POULTRY ASSOCIATION.		
	Grant		1,500 00
26.	BRITISH COLUMBIA STOCK-BREEDERS' ASSOCIATION.		
	Grant		2,500 00
27.	BRITISH COLUMBIA WOOL-GROWERS' ASSOCIATION.		
	Interior Wool-growers' Association, $500; V.I. Flockmasters' Association, $250		750 00
28.	BRITISH COLUMBIA SEED-GROWERS' ASSOCIATION.		
	United Seed-growers' Association		2,500 00
29.	BOARD OF HORTICULTURE.		
	Grant		*Nil.*
30.	DEPARTMENTAL EXHIBITS.		
	Sundry Expenses ($1,984.43): Belyea & Co., $6; B. & K. Milling Co., $2.50; B.C. Mills T. & T. Co., $21.37; Brown Bros. & Co., $26; Brydon Bros., $248; Burke & Wood, Ltd., $275.54; C.P.R. Co., $79.71; Carter Electric Co., $9.40; Central Transfer Co., $174.55; M. Cooley & Son, $9.50; W. H. Creech, $22.80; Cunningham Hdwe. Co., $9.40; Dominion Express Co., $114.51; Empress Garage, $3.91; W. S. Fraser & Co., Ltd., $54.61; Ivel's Pharmacy, $4.95; Jarvis Electric Co., Ltd., $32.12; King's Printer, $34.75; Knowlton's, Ltd., $9; Lemon-Gonnason Co., Ltd., $123.05; D. Mackereth, $155.65; A. H. Maynard, $1.10; Mellor Bros., $53.75; Melrose Co., Ltd., $4.25; National Drug & Chemical Co., Ltd., $37.70; New Westminster City, $22.11; F. Norris & Sons, $12.50; G. W. Paterson, $19.60; Public Works Department, $19.50; R. P. Rithet & Co., Ltd., $89; Russell's Studio, $9; Scott & Peden, $2.20; Shawnigan Lake Lumber Co., Ltd., $11.90; W. J. Sheppard, $13.20; A. H. Shotbolt, $209.50; Small & Bucklin Lumber Co., Ltd., $7.15; D. Spencer, Ltd., $82.24; Sweeney Cooperage Co., $13.50; Turner, Beeton & Co., Ltd., $12.91; G. E. Wilkerson, $6.50; Young Studio, $37.50	$ 2,082 43	
	By cash	98 00	
	Total expenditure, Departmental Exhibits		1,984 43
31.	COMPENSATION RE FOUL-BROOD IN BEES.		
	P. J. Baker, $2; A. Black, $10.50; H. C. Dale, $19.25; H. C. Derrick, $53.75; S. Ellard, $25.25; W. Ellicott, $19.50; J. S. Embleton, $26.50; M. Firth, $19.25; W. S. Hill-Tout, $8.25; J. Jones, $75.50; W. Latimer, $4; E. Moore, $2;		
	Carried forward		$ 328,546 07

No. of Vote.	SERVICE.	Expended.
	DEPARTMENT OF AGRICULTURE—*Continued.*	
31.	COMPENSATION RE FOUL-BROOD IN BEES—*Continued.*	
	Brought forward	$ 328,546 07
	J. Morrison, $5; T. J. Neilly, $3.50; R. M. Nelson, $1.50; A. J. Paterson, $1; R. V. Ramsden, $37.50; G. J. Reade, 50c.; W. Rennie Co., Ltd., $396.65; E. A. Stephens, $2.50; S. J. Weeks, $6.25	720 15
32.	CONTROL OF NOXIOUS WEEDS.	
	A. L. Cameron, $31.50; D. Finlayson, $11.75; S. Hawkins, $51.75; W. Munro, $35.59; L. Thompson, $34	164 59
33.	GRANTS TO BRITISH COLUMBIA STUDENTS.	
	K. Drew, $50; A. Fulton, $100; M. L. Grant, $100; G. Hallwright, $50; L. E. King, $50; G. Knowles, $100; C. E. Maxwell, $100	550 00
34.	INCIDENTALS AND CONTINGENCIES.	
	B.C. Fruit-growers' Association, $1,000; E. M. McPhee, $42; A. Nordstrom, $15	1,057 00
	STATUTORY EXPENDITURE.	
	"Pound District Act Amendment Act, 1918," Sec. 2.	
	J. N. Cushing	235 15
	SPECIAL WARRANT NO. 25.	
	Compensation to city lot-owners at Vernon for fruit completely destroyed in campaign for control of codling-moth, pay-list	1,593 75
	Total expenditure, Department of Agriculture	$ 332,866 71
	DEPARTMENT OF THE ATTORNEY-GENERAL.	
35.	ATTORNEY-GENERAL'S OFFICE.	
	Salaries ($9,218.16):	
	The Attorney-General ..... Hon. J. W. de B. Farris	$ 6,250 00
	Secretaries:	
	H. Brown .....$1,870 00 L. A. Menendez $176 07	2,046 07
	Clerk and Stenographer ..... A. Porritt	378 38
	Stenographers:	
	M. Devereux .....$10 89 F. Wright $480 00	
	E. M. Jameson 52 82	543 71
		$ 9,218 16
	Expenses ($3,196.79):	
	Office Supplies, etc.:	
	B.C. Telephone Co., Ltd., $303.10; C.P.R. Telegraphs, $111.50; Colonist P. & P. Co., Ltd., $12; Columbian Co., Ltd., $6; Dominion Government Telegraphs, $4.94; W. S. Fraser & Co., Ltd., $1.25; G.N.W. Telegraph Co., $57.83; King's Printer, $418.15; Law Society of B.C., $20; Macey-Abell Co., Ltd., $73; postage, $142.42; Smith & Champion, $2; Terminal City Motor Co., Ltd., $24; Times P. & P. Co., Ltd., $12; United Typewriter Co., Ltd., $9.50; Vancouver Daily Province, $4; Vancouver Daily Sun, $4.85; Weiler Bros., Ltd., $45; Western Idea, Ltd., $2; Wrigley Directories, Ltd., $10	1,263 54
	Travelling Expenses:	
	Hon. J. W. de B. Farris, $1,751.30; H. Brown, $154.35; L. A. Menendez, $27.60	1,933 25
	Total expenditure, Attorney-General's Office	$ 12,414 95
	Carried forward	$ 12,414 95

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
	Brought forward		$ 12,414 95
36.	GENERAL OFFICE.		
	Salaries ($20,559.61):		
	Deputy Attorney-General ..... A. M. Johnson	$ 4,920 00	
	Legislative Counsel ..... A. V. Pineo	4,320 00	
	Departmental Solicitor ..... W. D. Carter	3,720 00	
	Chief Clerk ..... W. B. Colvin	2,020 00	
	Voucher Clerk ..... W. F. Bridge	1,720 00	
	Clerks and Stenographers:		
	N. Grist ..... $ 75 00 L. MacLeod $911 13		
	M. A. Lawson ..... 870 00 N. F. Stuart 157 26		
	A. L. Marquart 525 00	2,538 39	
	Clerks:		
	M. Switzer ..... $61 22 F. Wright $480 00	541 22	
	Stenographer ..... H. Simpkin	780 00	
		$ 20,559 61	
	Expenses ($4,666.68):		
	Office Supplies, etc.:		
	B.C. Telephone Co., Ltd., $321.56; Burroughs Adding Machine of Canada, Ltd., $347.12; Burroughs & Co., Ltd., $78.15; Butterworth & Co. (Canada), Ltd., $34.05; Canada Law Book Co., Ltd., $248.53; Canadian Law List Publishing Co., $4; Canada Legal Directory, $5; C.P.R. Telegraphs, $673.91; Carswell Co., Ltd., $147.80; Dominion Express Co., $9.75; Dominion Government Telegraphs, $16.02; W. S. Fraser & Co., Ltd., $1.75; G.N.W. Telegraph Co., $194.56; Henderson Directory Co., $20; H. Hull, $5; King's Printer, $1,095.58; Lands Department, $4.25; Law Society of B.C., $60; Lemon-Gonnason Co., Ltd., $9.41; Macey-Abell Co., Ltd., $220.60; postage, $370.90; Public Works Department, $5; Remington Typewriter Co., Ltd., $125.55; Society of Comparative Legislation, $4.62; Thomas Law Book Co., $2.22; Victoria Book & Stationery Co., Ltd., 50c.; Victoria Numerical Telephone Locator, $1; Wrigley Directories, Ltd., $10	4,016 83	
	Travelling Expenses:		
	W. D. Carter, $421.80; A. M. Johnson, $184.25; A. V. Pineo, $43.80	649 85	
	Total expenditure, General Office		25,226 29
37.	JOINT-STOCK COMPANIES AND INSURANCE BRANCH.		
	Salaries ($12,561.05):		
	Registrar and Supt. of Insurance .. H. G. Garrett	$ 2,560 67	
	Fire Investigation Officer ..... J. A. Thomas	2,220 00	
	Chief Clerk ..... W. L. Llewellyn	1,891 88	
	Clerk ..... I. E. Kenworthy	1,083 34	
	Stenographers:		
	F. K. Healy ..... $960 00 N. C. Gibson $725 00	1,685 00	
	Junior Clerk ..... P. J. Mulcahy	720 00	
	Office-boy ..... A. O. Cooke	360 00	
	Temporary Assistance:		
	J. H. Buckett ..... $133 07 F. Leyster ..... $ 24 00		
	E. M. Collins ..... 6 65 D'Arcy Martin 1,116 68		
	R. M. Greene ..... 82 26 E. M. Monteith 300 00		
	R. Hinton ..... 5 00 G. J. Rant 82 50		
	K. E. Hughes ..... 195 00 D. Scott 15 00		
	M. M. Kelly 80 00	2,040 16	
		$ 12,561 05	
	Expenses ($7,021.86):		
	Office Supplies, etc.:		
	A. M. Best Co., $45; B.C. Financial Times, $2; B.C. Telephone Co., Ltd., $90.24; C.P.R. Telegraphs, $47.51; Carter		
	Carried forward	$ 12,561 05	$ 37,641 24

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
37.	JOINT-STOCK COMPANIES AND INSURANCE BRANCH—*Continued.*		
	Brought forward	$ 12,561 05	$ 37,641 24
	Expenses—*Continued.*		
	Office Supplies, etc.—*Continued.*		
	Electric Co., Ltd., $4.50; Dominion Association of Fire Chiefs, $3; Dominion of Canada Guarantee & Accident Insurance Co., $10; Fire Protection, $4.30; G.N.W. Telegraph Co., $14.32; King's Printer, $2,774.24; Law Society of B.C., $20; Lemon-Gonnason Co., Ltd., $79.31; Macey-Abell Co., Ltd., $112.60; Monetary Times, $3; J. Morrison, $3.75; postage, $1,012.86; Public Works Department, $88.20; Spectator Co., $8; Stone & Cox, $3; Sweeney-McConnell, Ltd., $37.50; United Typewriter Co., Ltd., $166.28; Victoria Numerical Telephone Locator, 50c.; Wrigley Directories, $10	4,540 11	
	Travelling Expenses:		
	H. G. Garrett, $66.15; M. M. Kelly, $26.25; J. A. Thomas, $893.89	986 29	
	Fire Report Fees and Expenses:		
	Pay-lists	621 83	
	Fire Inquiries and Fire Protection:		
	B.C. Telephone Co., Ltd., $12.29; British Fire Prevention Committee, $1.05; G. F. Brock, $3.50; H. A. Burton, $10; Clarke & Stuart Co., Ltd., $2.30; Dominion Express Co., 90c.; Elec. Supply & Contracting Co., Ltd., 60c.; Fire Engineer, $2.80; H. Graham, $24.55; W. R. Hill, $56.35; P. J. Mackay, $406.50; I. A. Mackenzie, $50; N. K. Maitland, $15.90; F. C. Manchester, $2.50; National Fire Protection Association, $10; National Underwriter Co., $2.27; F. G. Perry, $64.50; J. D. Quail, $1.50; T. A. Ruffell, $53.40; M. Southworth, $5.95; J. A. Thomas (sundry accounts), $11.27; pay-lists, witness fees, $135.50	873 63	
	Total expenditure, Joint-stock Companies and Insurance Branch ...		19,582 91
38.	MUNICIPAL BRANCH.		
	Salaries ($5,589.96):		
	Inspector of Municipalities .....R. Baird	$ 3,120 00	
	Clerk .....E. C. Wilderspin	1,599 96	
	Stenographer .....H. M. Dill	870 00	
		$ 5,589 96	
	Expenses ($1,495.39):		
	Office Supplies, etc.:		
	American City, $4.50; B.C. Financial Times, $2; B.C. Telephone Co., Ltd., $75.32; Burroughs & Co., $88.25; Can. Municipal Jnl. Co., $2; C.P.R. Telegraphs, $16.65; Dominion of Canada Guarantee & Accident Insurance Co., $7.50; Dominion Express Co., 50c.; Dominion Government Telegraphs, 40c.; W. S. Fraser & Co., Ltd., 20c.; G.N.W. Telegraph Co., $4.31; King's Printer, $486.01; Lemon-Gonnason Co., Ltd., $7.63; Macey-Abell Co., Ltd., $160; Maclean Publishing Co., Ltd., $5; Monetary Times, $3; Municipal World, $1; National Municipal League, $5; postage, $79.39; Prior & Co., Ltd., $5.54; Victoria Book & Stationery Co., Ltd., $1.50; Western Municipal News, $5.24; Wrigley Directories, $10	970 94	
	Travelling Expenses:		
	R. Baird	524 45	
	Total expenditure, Municipal Branch		7,085 35
39.	CENSOR OF MOVING PICTURES.		
	Salaries ($12,525.39):		
	Censor .....W. Hepburn	$ 2,620 00	
	Carried forward	$ 2,620 00	$ 64,309 50

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
39.	CENSOR OF MOVING PICTURES—*Continued.*		
	Brought forward	$ 2,620 00	$ 64,309 50
	Salaries—*Continued.*		
	Assistant Censors:		
	J. Flett ..... $1,600 00 J. A. Smith $1,800 00		
	L. M. Patterson 1,600 00	5,000 00	
	Inspector ..... W. A. Oswald	1,800 00	
	Operators:		
	W. Myers ..... $1,440 00 T. W. Sapsted $17 50	1,457 50	
	Clerks:		
	J. Bell ..... $500 00 C. P. Brewer $235 89	735 89	
	Stenographer ..... A. Hope	912 00	
		$ 12,525 39	
	Expenses ($1,532.47):		
	Office Supplies, etc.:		
	B.C. Telephone Co., Ltd., $20.01; C.P.R. Telegraphs, $16.55; Clarke & Stuart Co., Ltd., $10.45; N. G. Cull, $4; Dominion Express Co., $1.70; Empire Transfer Co., $2.75; W. Hepburn (exchange on cheques), $6.85; G. H. Hewitt Co., Ltd., $2.55; King's Printer, $111.46; Moving Picture World, $3.98; N. Nelson Co., $10; postage, $21; J. & J. Taylor, $1; United Typewriter Co., Ltd., $16; Vancouver Engineering Works, Ltd., $55.44	283 74	
	Travelling Expenses:		
	W. Hepburn, $16.10; W. A. Oswald, $686.50; L. M. Patterson, $182.50	885 10	
	Machine Supplies, etc.:		
	Baird Motion Picture Machine Co., $100.80; F. H. Behnsen, $7.50; B.C. Theatre Supplies, Ltd., $37.35; Burns Drug Co., Ltd., $5.50; Canadian General Electric Co., Ltd., $26.17; Collector of Customs, $28.37; Continental Marble Co., Ltd., $18.75; Crane Co., $10.12; Electrical Manufacturing Co., $11.56; Electrical Shop, $2; Empire Transfer Co., $1; J. R. Foster, $35; Gault Bros., $25; Kydd Bros., $6.50; W. T. McArthur & Co., Ltd., 90c.; McLennan, McFeely & Co., $13.34; Northern Electric Co., $23.92; W. A. Oswald (sundry accounts), $4.75; Storey & Campbell, $4.75; Vancouver Engineering Works, Ltd., $2	365 28	
		$ 14,059 51	
	By cash	1 65	
	Total expenditure, Censor of Moving Pictures		14,057 86
40.	ADMINISTRATION OF "PROHIBITION ACT."		
	Salaries ($8,641.68):		
	Commissioner ..... J. Sclater	$ 3,333 32	
	Acting-Commissioner (2 mos.) .... A. H. Wyllie	326 68	
	Clerks:		
	E. Middleton ..... $1,480 00 A. H. Wyllie (10 mos.) $1,383 32	2,863 32	
	Stenographers:		
	F. Dawson ..... $ 79 35 M. Moffatt ..... $ 65 00		
	M. Frampton ..... 900 00 M. McDonald 780 00		
	A. George ..... 280 08 M. Switzer 13 93	2,118 36	
		$ 8,641 68	
	Expenses ($39,815.02):		
	Office Supplies, etc.		
	B.C. Telephone Co., Ltd., $90.80; C.P.R. Telegraphs, $67.90; Colonist P. & P. Co., Ltd., $3; Dominion of Canada Guarantee & Accident Insurance Co., $13.56; Dominion Express Co., $6;		
	Carried forward	$ 8,641 68	$ 78,367 36

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
40.	ADMINISTRATION OF THE "PROHIBITION ACT"—*Continued.*			
	Brought forward	$ 8,641 68	$ 78,367 36	
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	Dominion Government Telegraphs, 73c.; G.N.W. Telegraph Co., $42.04; King's Printer, $1,030.61; postage, $419.14; D. Spencer, $1.95; United Typewriter Co., Ltd., $168.90; Vancouver Daily Province, $1.50; Vancouver Daily Sun, $3; A. W. Woodward, $117; The World, Ltd., $1.50; Wrigley Directories, Ltd., $10 ..	1,977 63		
	Travelling Expenses:			
	E. Middleton, $91.30; J. Sclater, $644.05; A. H. Wyllie, $499.45	1,234 80		
	Special Operators:			
	Salaries:			
	J. Merritt ..$ 275 00 W. J. Burns Detective Agency	$ 15,123 77		
	G. Miller... 1,800 00			
	C. D. Thayer 215 00 McDonald Detective Agency	597 40		
		$ 18,011 17		
	Expenses:			
	G. Miller	1,220 60		
		19,231 77		
	Liquor Seizures and Prosecutions:			
	H. C. P. Bradford, $5.25; B. S. Brown, $117; W. I. Briggs, $20; J. Callander, $3.75; Campbell's Storage Co., Ltd., $460.80; V. L. Cox, $5.25; Delmonico Café, $12; C. Dickens, $117; Dominion Express Co., $980.89; B. Elmer, $10; Empire Transfer Co., $316; Fernie Cartage Co., $3; Fire Underwriters Agency, Ltd., $234; Government Liquor Warehouse (storage), $750; G.N. Railway Co., $12; R. G. Heddle, $58.50; W. Hilton, $1; A. D. Kean, $8; Laws & Fisher, $51.14; R. J. Leckey, $12; A. Leighton, $232.70; F. B. Lewis & Co., Ltd., $117; E. Little, $13.10; Macdonald & Nisbet, $77.65; L. W. Makin, $55; A. S. Matthew & Co., $175.50; J. F. Morris, $117; G. L. MacInnes, $61.30; A. MacNeil, $205; J. C. McLagan, $7.60; McKay & Orr, $248; H. Nash, $3; W. A. Ormiston, $10; Pattullo & Tobin, $908.56; F. G. Perry, $186.50; M. Plant, $1,625; Postmaster, Vancouver, 27c.; J. T. Richardson, $56; D. P. Robertson, $20; G. Robinson, $91; F. Rose, $117; C. Steele Investment Co., Ltd., $234; Taylor, Mayers. Stockton & Smith, $7,648.92; J. C. Thorn & Co., Ltd., $175.50; F. Trimble Realty Co., $243.65; Vancouver Auto & Taxi Service, $30; Vancouver Insurance & Vessel Agency, $175.50; Vancouver Lumber Co., Ltd., $6.04; M. R. Wells, $20; H. S. Wood, $218.20; pay-lists, $1,114.25	17,370 82		
	Total expenditure, Administration of "Prohibition Act"			48,456 70
	NOTE.—For trading operations of Government Liquor Vendors *see* Appendix A.			
	SHERIFFS' OFFICES.			
41.	SHERIFF'S OFFICE, VANCOUVER.			
	Salaries ($9,989.85):			
	Sheriff .....C. Macdonald	$ 4,120 00		
	Deputy Sheriff .....J. A. Bourque	2,220 00		
	Process Server .....T. Cosford	1,392 00		
	Clerk .....L. A. Brooking	1,152 00		
	Temporary Assistance:			
	R. J. Eilbeck....$20 00 A. G. Nicolls..$ 20 00			
	E. Glass..... 42 85 J. Pool 905 00			
	T. Musk ..... 40 00 A. J. Rundle .. 78 00	1,105 85		
	Carried forward	$ 9,989 85		$ 126,824 06

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	SHERIFFS' OFFICES—*Continued.*			
41.	SHERIFF'S OFFICE, VANCOUVER—*Continued.*			
	Brought forward	$ 9,989 85		$ 126,824 06
	Expenses ($2,769.42):			
	Office Supplies, etc.: B.C. Telephone Co., Ltd., $71.50; Dominion of Canada Guarantee & Accident Insurance Co., $55; Dominion Express Co., $7.90; Henderson Directory Co., $12; King's Printer, $279.64; postage, $116 ..	542 04		
	Travelling Expenses: J. Bourque, $11.25; T. Cosford, $31.80; J. Pool, $26.85; A. J. Rundle, $6.50; B.C.E.R. Co., Ltd. (car tickets), $455			
	Purchase and Upkeep of Auto: Begg Motor Co., Ltd., $1.522.63; Brown Garage, $15.55; Crawford Battery Co., Ltd., $4.70; licences, $33.60; A. C. Lochead, $30; Z. Strong, $15; Vancouver Insurance & Vessel Agency, Ltd., $74.50	2,227 38		
	Total expenditure, Sheriff's Office, Vancouver		$ 12,759 27	
42.	SHERIFF'S OFFICE, VICTORIA.			
	Salaries ($7,242):			
	Sheriff ..... F. G. Richards	$ 3,000 00		
	Deputy Sheriff ..... R. Sangster	2,100 00		
	Process Server ..... C. de Macedo	1,212 00		
	Stenographers: B. de Macedo ..$900 00 J. Ross $30 00	930 00		
		$ 7,242 00		
	Expenses ($584.30):			
	Office Supplies, etc.: B.C.E.R. Co., Ltd., $25.98; B.C. Land & Investment Agency, Ltd., $330; R. A. Brown & Co., 60c.; County Court Registry, $2.50; Dominion of Canada Guarantee & Accident Insurance Co., $30; Henderson Directory Co., $8; T. N. Hibben & Co., $10; King's Printer, $84.25; Little & Taylor, $2.50; Macey-Abell Co., Ltd., 30c.; McTavish Bros., $3.42; postage, $45; A. E. Price, 25c.; Reliable Transfer Co., $2.20; Remington Typewriter Co., Ltd., $1.95	546 95		
	Travelling Expenses: B.C.E.R. Co., Ltd. (car tickets), $29; Plimley & Ritchie (repairs to bicycle), $8.35	37 35		
	Total expenditure, Sheriff's Office, Victoria		7,826 30	
43.	SUNDRY SHERIFFS.			
	Allowances and Office Supplies, etc.:			
	Cariboo: E. S. Peters, $750; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; A. F. Green, $18; King's Printer, $5; City of Prince George, $5.40	$ 780 90		
	Golden: D. P. Kempton, $600; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; King's Printer, $5	607 50		
	Grand Forks: H. C. Kerman, $600; Dominion of Canada Guarantee & Accident Insurance Co., $2.50	602 50		
	Carried forward	$ 1,990 90	$ 20,585 57	$ 126,824 06

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	SHERIFFS' OFFICES—*Continued.*			
43.	SUNDRY SHERIFFS—*Continued.*			
	Brought forward	$ 1,990 90	$ 20,585 57	$ 126,824 06
	Allowances and Office Supplies, etc.—*Continued.*			
	Kamloops: W. F. Wood, $750; B.C. Telephone Co., Ltd., $54; King's Printer, $15.75	819 75		
	Nanaimo: C. J. Trawford, $600; B.C. Telephone Co., Ltd., $60; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; King's Printer, $5	667 50		
	Nelson: J. H. Doyle, $750; B.C. Telephone Co., Ltd., $68; King's Printer, $10	828 00		
	New Westminster: T. J. Armstrong, $598.79; H. P. McMartin, $151.21; B.C. Telephone Co., Ltd., $66; C.P.R. Telegraphs, $2.65; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; King's Printer, $5.66	826 81		
	Prince Rupert: J. Shirley, $600; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; City of Prince Rupert, $25	627 50		
	Revelstoke: W. J. Law, $600; Dominion of Canada Guarantee & Accident Insurance Co., $2.50	602 50		
	Total expenditure, Sundry Sheriffs		6,362 96	
	Total expenditure, Sheriffs' Offices			26,948 53
44.	OFFICIAL GUARDIAN, VANCOUVER.			
	Salaries ($2,640): Official Guardian .....H. O. Alexander		$ 1,800 00	
	Stenographer .....A. Crawford		840 00	
			$ 2,640 00	
	Expenses ($62.75): Office Supplies, etc.: Dominion of Canada Guarantee & Accident Insurance Co., $12.50; King's Printer, $50.25		62 75	
	Total expenditure, Official Guardian, Vancouver			2,702 75
45.	LEGAL OFFICES BRANCH.			
	Salaries ($5,460.74): Inspector of Legal Offices .....H. J. Crane		$ 3,120 00	
	Clerk .....A. M. D. Fairbairn		1,471 55	
	Stenographers: F. Dawson .....$404 68 E. M. Monteith $89 51			
	A. L. Marquart 375 00		869 19	
			$ 5,460 74	
	Expenses ($1,141.70): Office Supplies, etc.: B.C. Telephone Co., Ltd., $69.60; Burroughs & Co., Ltd., $39.15; C.P.R. Telegraphs, $10.78; Carswell Co., Ltd., $12.85; G.N.W. Telegraph Co., $1.84; King's Printer, $263.95; Law Society of B.C., $20; Weiler Bros., $2.93; Wrigley Directories, $20		441 10	
	Carried forward		$ 5,901 84	$ 156,475 34

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
45.	LEGAL OFFICES BRANCH—*Continued.*		
	Brought forward	$ 5,901 84	$ 156,475 34
	Expenses—*Continued.*		
	Travelling Expenses: O. Barton, $33.50; H. J. Crane, $364.95; A. M. D. Fairbairn, $6.55; A. G. Smith, $295.60	700 60	
	Total expenditure, Legal Offices Branch		6,602 44
	LAND REGISTRY OFFICES.		
46.	KAMLOOPS.		
	Salaries ($28,717.11):		
	Registrar ..... H. V. Craig	$ 2,915 00	
	Chief Clerk ..... C. Outhett	1,836 96	
	Surveyor ..... F. A. Phillips	1,763 19	
	Clerks:		
	A. D. Allen .. $1,399 50		
	E. M. Clarke .. 1,556 00		
	N. B. Connolly 464 51		
	L. Doiron 922 42		
	R. F. Ely 963 34		
	H. C. Francis. 1,422 00		
	L. H. Fullager 1,509 00		
	W. J. Gibson .. 400 00		
	F. L. Glover .. 762 62		
	M. Huth 522 58		
	J. F. C. Jackson 1,332 50		
	M. M. Kelly .. $ 880 00		
	J. Marshall .. 1,716 96		
	D. H. Mackay 220 00		
	W. M. McFarlane 1,596 96		
	R. McSavaney 77 42		
	M. Pott 440 00		
	R. S. Sears .. 1,422 50		
	F. S. Spain .. 460 00		
	R. T. Thorburn 1,544 28		
	W. H. Upward 114 00	19,726 59	
	Stenographers:		
	N. C. Gibson ... $ 72 50		
	H. G. Jones 10 83		
	L. D. Kelly 195 00		
	L. McCall 299 54		
	E. M. McDowell 68 56		
	C. Palmer ..... $ 26 00		
	K.M.Sutherland 780 00		
	I. Todd 502 66		
	J. Winterbottom 520 28		
	.....	2,475 37	
		$ 28,717 11	
	Expenses ($5,723.17):		
	Office Supplies, etc.: Burroughs & Co., $40.50; C.P.R. Telegraphs, $16.92; N. S. Dalgleish, $48.25; H. J. Davies, $1.50; Dominion of Canada Guarantee & Accident Insurance Co., $7.53; Dominion Express Co., $89.45; Dominion Government Telegraphs, 60c.; W. J. Ellis & Co., $2; J. L. Gordon, $83.70; Hudson's Bay Co., $1.35; Kamloops Sash & Door Factory, $9.35; Kamloops Telegram, 25c.; G. Key-Jones, $15.75; King's Printer, $2,646.45; W. Laing, $36.25; Lands Department, $37.80; Law Society of B.C., $7.50; Mallery Drug Co., $3.50; J. Milton Estate, $25.79; J. C. McArthur, $2; Office Specialty Manufacturing Co., Ltd., $530.16; postage, $1,502; Remington Typewriter Co., Ltd., $177.25; G. A. Roedde, Ltd., $184.30; A. Shaw, $3.71; M. W. Sullivan, $9.50; A. C. Taylor, 70c.; Wrigley Directories, $10	5,494 06	
	Travelling Expenses: W. J. Gibson, $22.75; H. G. Jones, $24.25; D. H. Mackay, $19.20; M. Pott, $49.01; R. S. Sears, $19.60; F. S. Spain, $74.05; I. D. Todd, $20.25	229 11	
	Total expenditure, Kamloops Land Registry Office	$ 34,440 28	
	Carried forward	$ 34,440 28	$ 163,077 78

No. of Vote.	SERVICE.			Expended.		
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*					
	LAND REGISTRY OFFICES—*Continued.*					
	Brought forward				$ 34,440 28	$ 163,077 78
47.	NELSON.					
	Salaries ($14,180.92):					
	Registrar	E. S. Stokes		$ 2,820 00		
	Surveyors:					
	W. C. P. Heathcote $933 31	A. E. Pickford	$716 65	1,649 96		
	Clerks:					
	J. Cotter $1,452 00	C. J. McGuigan	$1,539 96			
	J. S. Goulding 1,392 00	D. C. Wilson	1,500 00			
	R. Morrow 1,452 00			7,335 96		
	Stenographer	M. E. Halsey		840 00		
	Janitor	T. Ashton		1,080 00		
	Junior Clerk	L. St. Denis		455 00		
				$ 14,180 92		
	Expenses ($3,328.42):					
	Office Supplies, etc.: B.C. Plumbing & Heating Co., $47.20; B.C. Telephone Co., Ltd., $78.05; Burroughs & Co., $27; C.P.R. Telegraphs, $29.24; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $63.75; J. K. Douglas, $14.75; Electric Blue Print & Map Co., $11.95; W. Fowles, $6; French Steam Laundry, $4.80; Howe Electric Co., $11.88; King's Printer, $1,420.31; W. Laing, $106.20; Law Society of B.C., $7.50; D. A. McFarland, $315; City of Nelson, $82.95; Nelson Hardware Co., $2.50; Nelson Transfer Co., $1; News Publishing Co., Ltd., $22.50; Office Specialty Manufacturing Co., Ltd., $358.23; postage, $676; Star Grocery, $9.20; G. Taylor, 75c.; West Transfer Co., $14.41; F. Williams, $1; Wood-Vallance Hardware Co., Ltd., $3.75; Wrigley Directories, $10			3,328 42		
	Total expenditure, Nelson Land Registry Office				17,509 34	
48.	NEW WESTMINSTER.					
	Salaries ($37,674.36):					
	Registrar	T. O. Townley		$ 3,420 00		
	Chief Clerk	R. H. Cheyne		2,220 00		
	Surveyors:					
	J. H. Disney $1,600 00	A. Thompson	$1,500 00	3,100 00		
	Clerks:					
	C. E. Annandale $1,500 00	E. Richards	$ 580 00			
	H. Chapple 567 86	A. M. Shaw	1,200 00			
	C. W. Friend 1,600 00	A. H. Sivewright	1,600 00			
	A. B. Gray 1,392 00	G. Smith	1,660 00			
	M. D. Johnson 1,600 00	A. T. Turnbull	1,392 00			
	C. P. Latham 1,660 00	F. G. Watts	1,600 00			
	D. H. Mackay 1,100 00	L. B. West	560 00			
	D. E. McPhaden 1,392 00	G. F. Weston	1,300 00			
	J. Nelson 1,600 00	L. F. Williams	1,500 00	23,803 86		
	Stenographers:					
	M. A. Birch $780 00	E. M. Pope	$357 50			
	G. Featherstone 780 00	G. M. Rogers	400 00			
	M. B. Ferguson 377 00	W. Westhead	420 00			
	M. I. Kelly 960 00			4,074 50		
	Carried forward			$ 36,618 36	$ 51,949 62	$ 163,077 78

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	LAND REGISTRY OFFICES—*Continued.*			
48.	NEW WESTMINSTER—*Continued.*			
	Brought forward	$ 36,618 36	$ 51,949 62	$ 163,077 78
	Salaries—*Continued.*			
	Janitors:			
	A. H. Bacon ....$66 00 E. A. Round ..$990 00	1,056 00		
		$ 37,674 36		
	Expenses ($4,871.46):			
	Office Supplies, etc.:			
	Albion Motor Express, $8; Annandale Supply Co., $3.70; B.C. Telephone Co., Ltd., $83.31; Bryson & Sons, $6.30; Burr Office Supplies, $60.25; Burroughs & Co., $27; F. E. Cameron, $2; C.P.R. Co., $5.40; C. T. Cox, $20; Dominion of Canada Guarantee & Accident Insurance Co., $7.50; Dominion Express Co., $21.55; Dominion Rubber System (Pacific), Ltd., $160.56; T. Gifford, $2; G. H. Hewitt Co., Ltd., $6; King's Printer, $1,605.70; Lands Department, $17.50; Law Society of B.C., $7.50; Merchants, Ltd., $3.50; C. Moulton, $52.01; City of New Westminster, $158.25; New Westminster Gas Co., $6.30; Office Specialty Manufacturing Co., $883.26; postage, $1,028; G. A. Roedde, Ltd., $631.44; Royal City Laundry, $14.30; H. Ryall, $20; T. H. Smith & Co., Ltd., $1; T. J. Trapp & Co., Ltd., $4.63; West Disinfecting Co., $14.50; Wrigley Directories, Ltd., $10	4,871 46		
	Total expenditure, New Westminster Land Registry Office			42,545 82
49.	PRINCE RUPERT.			
	Salaries ($5,919.96):			
	Registrar .....H. F. MacLeod	$ 2,820 00		
	Chief Clerk .....W. J. Ledlie	1,779 96		
	Surveyor .....H. C. Black	135 00		
	Clerk .....E. M. Bailey	165 00		
	Stenographer .....N. E. Pringle	1,020 00		
		$ 5,919 96		
	Expenses ($1,227.81):			
	Office Supplies, etc.:			
	Dominion of Canada Guarantee & Accident Insurance Co., $5; Dominion Express Co., $3.65; Dominion Government Telegraphs, $1.40; Electric Blue Print & Map Co., $4.80; King's Printer, $362.59; Law Society of B.C., $7.50; Macey-Abell Co., Ltd., $538.49; Pacific Cartage, $16.20; postage, $244.18; City of Prince Rupert, $34; Wrigley Directories, Ltd., $10	1,227 81		
	Total expenditure, Prince Rupert Land Registry Office...			7,147 77
50.	VANCOUVER.			
	Salaries ($51,856.40):			
	Registrar .....A. G. Smith	$ 4,800 00		
	Chief Clerk .....R. T. F. Granger	2,440 00		
	Clerks:			
	T. A. Adamson..$1,660 00 A. D. Mason..$1,500 00			
	J. M. Burgoyne 1,600 00 G. Mathewson 1,720 00			
	A. H. Cocking 1,200 00 J. M. Morrison 1,600 00			
	P. Crummer .. 1,392 00 J. McGill 533 32			
	B. Dalton .... 1,780 00 J. A. McLean. 1,900 00			
	M. M. Doherty 1,780 00 A. E. Ranniger 1,500 00			
	Carried forward	$ 7,240 00	$101,643 21	$ 163,077 78

No. of Vote.	SERVICE.			Expended.		
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*					
	LAND REGISTRY OFFICES—*Continued.*					
50.	VANCOUVER—*Continued.*					
	Brought forward			$ 7,240 00	$101,643 21	$ 163,077 78
	Salaries—*Continued.*					
	Clerks—*Continued.*					
	G. W. Emery	$1,600 00	J. Rayner	$1,237 73		
	H. Grayston	1,500 00	M. B. Sowerby	1,272 00		
	W. L. Hunt	1,392 00	J. M. Sutton	1,392 00		
	J.F.Hutchinson	1,500 00	J. W. Tillotson	1,500 00		
	G. B. Jones	1,800 00	W. H. Walker	1,720 00		
	A. E. King	1,332 00	G. W. Weeks	1,500 00		
	W. Langley	1,080 00	L. B. West	640 00		
	P. Mallett	1,500 00	E. J. Wood	1,500 00	40,631 05	
	Surveyor — D. W. Baker				1,720 00	
	Stenographers:					
	F. L. Aish	$314 00	C. M. Macpherson	$930 00		
	A. M. Bonshor	17 35				
	M. M. Cooper	273 00	M. M. McCauley	525 00		
	F. V. Jones	206 00			2,265 35	
					$ 51,856 40	
	Expenses ($7,547.81):					
	Office Supplies, etc.:					
	G. W. Barker Co., $3.25; H. Birks & Sons, Ltd., $2; B.C. Telephone Co., Ltd., $5.70; Burroughs & Co., $27; Canadian General Electric Co., Ltd., $5.65; C.P.R. Co., $17.50; Clarke & Stuart Co., Ltd., $2.40; Dominion of Canada Guarantee & Accident Insurance Co., $10; Dominion Express Co., $27.14; Elliott-Fisher, Ltd., $35.38; Graham Electric Co., $7.50; Henderson Directory Co., $12; G. H. Hewitt Co., Ltd., $11.35; Houghton & Evans, $3; Hudson's Bay Co., $3; King's Printer, $3,158.06; Law Society of B.C., $7.50; Office Specialty Manufacturing Co., Ltd., $120; postage, $984; G. A. Roedde, Ltd., $629.28; United Typewriter Co., Ltd., $35; Vancouver Map & Blue Print Co., $14.70; Vancouver Stationers, 40c.; Wrigley Directories, Ltd., $10				5,131 81	
	Furniture and Vault Fixtures, etc.:					
	H. Cox, $2; F. T. Hardwick, $2; Office Specialty Manufacturing Co., Ltd., $2,410; D. Thomas, $2				2,416 00	
	Total expenditure, Vancouver Land Registry Office					59,404 21
51.	VICTORIA.					
	Salaries ($42,566.12):					
	Registrar-General — F. J. Stacpoole			$ 3,720 00		
	Chief Clerk — B. F. J. Ward			2,091 66		
	Clerks:					
	M. J. Appleby	$1,500 00	J. Holms	$1,720 00		
	J. C. Banks	641 65	A. W. Idiens	1,660 00		
	C. R. Barker	653 23	N. Lowden	1,540 00		
	F. C. Belson	1,500 00	F. Mackenzie	1,800 00		
	T. Cashmore	1,800 00	C. Moss	1,500 00		
	F. DuBois	1,720 00	J. T. Muirhead	1,720 00		
	L. W. Evans	1,332 00	J. R. Park	535 09		
	F. R. Exham	1,660 00	A. L. Poudrier	1,152 00		
	G. Flamank	1,600 00	G. B. Ryves	1,500 00		
	S. G. Footner	375 00	E. V. Turner	1,152 00		
	S. B. Hamilton	642 26	T. G. A. Young	1,500 00		
	R. C. N. Hemberow	1,452 00			30,655 23	
	Carried forward			$ 36,466 89	$161,047 42	$ 163,077 78

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	LAND REGISTRY OFFICES—*Continued.*			
51.	VICTORIA—*Continued.*			
	Brought forward	$ 36,466 89	$161,047 42	$ 163,077 78
	Salaries—*Continued.*			
	Surveyors:			
	H. F. Hirst ..$1,720 00 H. Webster ..$1,780 00	3,500 00		
	Stenographers:			
	M. M. Harris ..$900 00 P. L. Scott.....$60 40			
	M. K. Palmer .. 840 00	1,800 40		
	Office-boys:			
	S. W. Butler ..$115 16 M. McConnell..$420 00			
	T. Kay 263 67	798 83		
		$ 42,566 12		
	Expenses ($4,481.39):			
	Office Supplies, etc.:			
	B.C. Telephone Co., Ltd., $85.80; Burroughs & Co., $27; C.P.R. Telegraphs, 74c.; Crystal Spring Water Supply, $6.80; Dominion of Canada Guarantee & Accident Insurance Co., $7.50; Henderson Directory Co., $8; King's Printer, $2,433.50; Lands Department, $115.20; Law Society of B.C., $27.50; H. P. McDowell, $6.50; postage, $678; Reliable Transfer Co., $20.80; Smith & Champion, Ltd., $1; Sweeney-McConnell, Ltd., $8; United Typewriter Co., Ltd., $13.30; Victoria Book & Stationery Co., Ltd., $1,005.20; Weiler Bros., Ltd., $7.50; Wrigley Directories, Ltd., $10	4,462 34		
	Travelling Expenses:			
	F. J. Stacpoole	19 05		
	Total expenditure, Land Registry Office, Victoria.....		47,047 51	
	Total expenditure, all Land Registry Offices			208,094 93
	SUPREME AND COUNTY COURTS.			
52.	CHILLIWACK.			
	Salaries ($1,105):			
	Registrar, County Court ...J. Pelly	$ 600 00		
	Acting-Registrar .....J. Scott	25 00		
	Janitor .....J. Peers	480 00		
		$ 1,105 00		
	Expenses ($733.89):			
	Office Supplies, etc.:			
	Chilliwack Telephone Co., Ltd., $56.75; Dominion Express Co., $2.50; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Houghton & Evans, $3; King's Printer, $46.79; Menzies Hardware Co., $7.25; N. Mitchell, $317; postage, $48..	482 54		
	Fuel, Water, and Light:			
	B.C.E.R. Co., Ltd., $7.66; Chilliwack Electric Co., Ltd., $3; Elk Creek Water Works Co., Ltd., $22.50; J. Malott, $218.19	251 35		
	Total expenditure, Chilliwack County Court		$ 1,838 89	
53.	LADYSMITH.			
	Salaries ($420):			
	Deputy Registrar, Supreme and County Courts.....J. Stewart	$ 420 00		
	Carried forward	$ 420 00	$ 1,838 89	$ 371,172 71

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	SUPREME AND COUNTY COURTS—*Continued.*			
53.	LADYSMITH—*Continued.*			
	Brought forward	$ 420 00	$ 1,838 89	$ 371,172 71
	Expenses ($56.70):			
	Office Supplies, etc.:			
	Dominion of Canada Guarantee & Accident Insurance Co., $1.25; King's Printer, $47.41; postage, $8.04	56 70		
	Total expenditure, Ladysmith Supreme and County Courts		476 70	
54.	NELSON.			
	Salaries ($2,250):			
	Registrar, Supreme and County Courts .....T. M. Bowman	$ 2,160 00		
	Deputy Registrar .....W. Brown	90 00		
		$ 2,250 00		
	Expenses ($294.29):			
	Office Supplies, etc.:			
	T. M. Bowman, $8.25; B.C. Telephone Co., Ltd., $131.75; C.P.R. Telegraphs, $8.06; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $5.10; Howe Electric Co., $3.25; King's Printer, $51.38; postage, $44; Remington Typewriter Co., $15; Standard Furniture Co., $20; United Typewriter Co., $5	294 29		
	Total expenditure, Nelson Supreme and County Courts..		2,544 29	
55.	NEW WESTMINSTER.			
	Salaries ($6,340):			
	Registrar, Supreme and County Courts .....J. J. Cambridge	$ 2,400 00		
	Clerks:			
	A. J. Brine ..$1,500 00 J. E. Turnbull $1,392 00	2,892 00		
	Stenographer .....E. M. Annandale	960 00		
	Ushers:			
	F. W. Banton ..$44 00 J. A. McMartin..$44 00	88 00		
		$ 6,340 00		
	Expenses ($827.93):			
	Office Supplies, etc.:			
	Blue Funnel Motor Line, 70c.; B.C. Telephone Co., Ltd., $251.84; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $8.30; Insley Press, 50c.; King's Printer, $376.09; postage, $188	827 93		
	Total expenditure, New Westminster Supreme and County Courts		7,167 93	
56.	PRINCE RUPERT.			
	Salaries ($2,220):			
	Registrar, Supreme and County Courts .....W. E. Burritt	$ 2,220 00		
	Expenses ($343.74):			
	Office Supplies, etc.:			
	Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express, $1.75; Dominion Government Telegraphs, $5.50; G.T.P. Telegraph Co., $4.09; King's Printer, $152.85; McRae Bros., $2.15; Pacific Cartage, $8.30; postage, $59; City of Prince Rupert, $53	289 14		
	Carried forward	$ 2,509 14	$ 12,027 81	$ 371,172 71

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	SUPREME AND COUNTY COURTS—*Continued.*			
56.	PRINCE RUPERT—*Continued.*			
	Brought forward		$ 2,509 14	$ 12,027 81 $ 371,172 71
	Expenses—*Continued.*			
	Repairs to Buildings: E. Chyber, $6; Mitchell & Currie, $46.10; Steen & Longwill, $2.50		54 60	
	Total expenditure, Prince Rupert Supreme and County Courts			2,563 74
57.	VANCOUVER.			
	Salaries ($30,491 08):			
	Registrar, Supreme and County Courts	J. F. Mather	$ 3,420 00	
	Deputy Registrar	J. C. Dockerill	2,185 00	
	Acting Deputy Registrar	H. Brown	150 00	
	Chief Clerk	H. N. Frith	1,575 00	
	Clerks:			
	W. H. Allen $1,452 00	R. C. Knight $1,500 00		
	L. J. Brown 1,452 00	A. G. McIntosh 1,392 00		
	C. M. Dallas 1,176 00	J. A. Preston 1,452 00		
	J. L. Gardner 1,452 00	A. L. Rodway 1,392 00		
	I. Godfrey 1,500 00	W.G.B.Thompson 1,500 00		
	A. Hemming 1,500 00			
	G. A. E. Hyde 1,452 00	W. R. Wellings 1,375 00		
	F. J. A. King 1,452 00	C. E. Willis 1,510 00	21,557 00	
	Stenographers:			
	K. E. Hughes $223 08	M. O. Norris $765 00		
	E. L. Mackenzie 40 00		1,028 08	
	Ushers:			
	R. J. Eilbeck $88 00	T. Musk $92 00		
	H. Lane 332 00	A. J. Rundle 64 00	576 00	
			$ 30,491 08	
	Expenses ($2,642.32):			
	Office Supplies, etc.: B.C. Telephone Co., Ltd., $22.88; H. Brown, $44.87; Canadian General Electric Co., Ltd., $2.41; C.P.R. Telegraphs, $21.59; Clarke & Stuart Co., Ltd., $5.75; Dominion of Canada Guarantee & Accident Insurance Co., $15.41; Dominion Express Co., $42.52; Graham Electric Co., $9.25; Haskins & Elliott, $1; G. H. Hewitt Co., Ltd., $44.60; Houghton & Evans, $1.50; King's Printer, $1,810.31; Pan-Co-Vesta-Club, $17.50; postage, $360; Remington Typewriter Co., Ltd., $1.25; Share Bros., Ltd., $3.25; Sun Job Presses, $217.53; J. & J. Taylor, $1; United Typewriter Co., $18; Western Specialty, Ltd., $1.70		2,642 32	
	Total expenditure, Vancouver Supreme and County Courts			33,133 40
58.	VICTORIA.			
	Salaries ($23,377.31):			
	Registrar, Supreme and County Courts	B. H. T. Drake	$ 3,000 00	
	Deputy Registrar and Clerk of the Peace	O. Barton	1,800 00	
	Carried forward		$ 4,800 00	$ 47,724 95 $ 371,172 71

No. of Vote.	SERVICE.			Expended.		
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*					
	SUPREME AND COUNTY COURTS—*Continued.*					
58.	VICTORIA—*Continued.*					
	Brought forward			$ 4,800 00	$ 47,724 95	$ 371,172 71
	Salaries—*Continued.*					
	Clerks:					
	G. A. Duncan.	$1,374 04	G. H. Mabon.	$1,500 00		
	N. C. Fawcett.	1,455 00	D. Reid	1,500 00		
	J. S. Gill	1,455 00	C. E. E. White	1392 00	8,676 04	
	Usher and Janitor		J. W. Bland		1,100 00	
	Usher		R. Pearce		508 70	
	Assistant Janitors:					
	C. C. Chandler.	$1,140 00	E. Smith	$ 190 00		
	J. H. Griffiths.	950 00	A. Whitfield..	1,200 00	3,480 00	
	Engineer		W. Jones		1,200 00	
	Clerk to Judges		L. Down		900 00	
	Elevator Attendants:					
	A. Menzies	$319 35	C. Minckler ...	$855 00	1,174 35	
	Nightwatchman		W. T. Pye		1,140 00	
	Stenographers:					
	A. Dorman	$203 22	D. Scott	$195 00	398 22	
					$ 23,377 31	
	Expenses ($6,987.94):					
	Office Supplies, etc.:					
	B.C. Telephone Co., Ltd., $790; C.P.R. Telegraphs, $10.26; G. Crowther, $5; Dominion of Canada Guarantee & Accident Insurance Co., $11.25; Dominion Express Co., $14.35; Drake Hardware Co., Ltd., $27.45; E. B. Eddy Co., Ltd., $13.50; Electric Blue Print & Map Co., $5; V. C. Fawcett, $13.60; Irish Linen Stores, $18; Ivel's Pharmacy, $2; F. Jeune & Bro., Ltd., $10.15; King's Printer, $940.32; S. Leiser & Co., Ltd., $11.90; Macey-Abell Co., Ltd., $101.25; W. J. Pendray & Sons, Ltd., $30; postage, $228; Reliable Transfer Co., $33.80; Smith, Davidson & Wright, Ltd., $2.73; D. Spencer, Ltd., $17.30; Standard Steam Laundry, $30.34; Turner, Beeton & Co., Ltd., $56.38; United Typewriter Co., Ltd., $167.70; E. J. Wall, $2.80; Weiler Bros., Ltd., $7.29				2,550 37	
	Maintenance and Repairs:					
	J. Anderson, $28.60; Arco Co., $262.50; B.C.E.R. Co., $6.76; B.C. Saddlery Co., Ltd., $18.20; Canadian Fairbanks-Morse Co., $15.94; Carter Electric Co., Ltd., $702.05; J. H. Carver, $60; H. Cooley & Son, $142; Esquimalt & Nanaimo Railway Co., $47.41; Evans, Coleman & Evans, Ltd., $23.79; W. S. Fraser & Co., Ltd., $34.21; Hawkins & Hayward, 90c.; Hickman-Tye Hardware Co., Ltd., $18.56; Lemon-Gonnason Co., Ltd., $61.87; Little & Taylor, $17.50; Lofts & Bosustow, $22.20; Melrose Co., Ltd., $11.24; J. Morrison, $4; Otis-Fensom Elevator Co., Ltd., $11.10; A. E. Price, $2.30; Producers Rock & Gravel Co., Ltd., $1.70; Public Works Department, $348.50; Reliable Transfer Co., $4; A. Sheret, $89.02; Smith & Champion, $9.68; Standard Furniture Co., $17.58; City of Victoria, $42.32; Waites & Knapton, $1.50; Weiler Bros., Ltd., $35.82; pay-lists, labour, $686.90				2,728 15	
	Carried forward				$ 28,655 83	$ 47,724 95 $ 371,172 71

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	SUPREME AND COUNTY COURTS—*Continued.*			
58.	VICTORIA—*Continued.*			
	Brought forward		$ 28,655 83	$ 47,724 95 $ 371,172 71
	Expenses—*Continued.*			
	Fuel, Water, and Light: B.C.E.R. Co., Ltd., $424.90; Carter Electric Co., Ltd., $53.51; Hawkins & Hayward, $28.50; Mackay & Gillespie, Ltd., $1,118.57; Times P. & P. Co., Ltd., $8; Victoria, B.C., Waterworks, $75.94		1,709 42	
	Total expenditure, Victoria Supreme and County Courts			30,365 25
59.	OFFICIAL STENOGRAPHERS.			
	Salaries ($5,742.55):			
	Stenographers:			
	F. Bunting	$ 300 00		
	P. J. Mackay	$1,344 00		
	J. Gilbert	1,344 00	2,988 00	
	Civil Court Stenographers:			
	F. Allbutt	$ 52 50		
	W. E. G. Johnson	$527 95		
	E. Blygh	210 00		
	C. J. Miller	255 00		
	M. S. Bryan	262 50		
	A. W. Morris	352 50		
	E. G. Cowper	15 00		
	F. G. Perry	54 00		
	E. C. Findley	30 00		
	D. F. Saunders	217 50		
	W. R. Hill	412 50		
	M. Unwin	365 10	2,754 55	
			$ 5,742 55	
	Expenses ($383.96):			
	Stationery:			
	King's Printer		383 96	
	Total expenditure, Official Stenographers			6,126 51
	Total expenditure, all Supreme and County Courts			84,216 71
60.	PROVINCIAL POLICE.			
	HEADQUARTERS.			
	Salaries ($17,800.52):			
	Superintendent	W. G. McMynn	$ 3,960 00	
	Inspector	F. R. Murray	2,805 00	
	Cashier	D. G. Cox	2,112 00	
	Chief Detective and Chief Clerk	G. A. Hood	1,980 00	
	Clerks:			
	C. A. Booth	$1,848 00		
	T. Conly	$1,320 00		
	C. Clark	1,320 00		
	R. Peachey	1,064 52		
	H. H. Clarke	1,320 00	6,872 52	
	Special Constables		71 00	
			$ 17,800 52	
	Expenses ($5,019.50):			
	Office Supplies, etc.: J. Bartholemew & Sons, $95; B.C. Telephone Co., Ltd., $560.87; Canadian Bank of Commerce, $2.85; Canadian Express Co., $1.80; Canada Law Book Co., $9.86; Carter Electric Co., Ltd., $1.50; C.P.R. Telegraphs, $279.10; Department of Public Printing, Ottawa, $8.50; Dominion of Canada Guarantee & Accident Insurance Co., $11.25; Dominion Government Telegraphs, $17.48; G.N.W. Telegraph Co., $6.45; King's Printer, $1,123.13; Macey Office Equipment Co., $1; Mitchell & Duncan, $3; Messenger Service, 25c.; postage, $638.24; Reliable			
	Carried forward		$ 17,800 52	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	HEADQUARTERS—*Continued.*			
	Brought forward		$ 17,800 52	$ 455,389 42
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	Transfer Co., $10.95; Remington Typewriter Co., $15; F. Smedley, 50c.; Smith & Champion, $9.90; United Typewriter Co., Ltd., $169.53; Victoria Book & Stationery Co., Ltd., $111; Wrigley Directories, $10		3,087 16	
	Travelling Expenses and Transportation:			
	C. E. Agassiz, $47.50; A. Arden, $24.25; J. M. Bella, $21.85; E. J. Breckon, $29.35; I. Ferris, $9; E. Gillingham, $8.95; G. A. Hood, $1; F. R. Murray, $51.15; W. G. McLeod, $39.70; W. G. McMynn, $68.80; C.P.R. Co., $7.50; Corporation of Victoria (use motor patrol), $10			
	Purchase and upkeep of Auto:			
	Licence, $15; Metropolitan Motor Co., 90c.; National Motor Co., Ltd., $1,246.44		1,581 39	
	Uniforms, Clothing, and Equipment:			
	Dominion Express Co., 85c.; W. N. Lenfesty, $2.50; Mitchell & Duncan, $10; Tisdall's, Ltd., $306		319 35	
	Incidentals and Contingencies:			
	Canadian Express Co., $1.25; Colpitt's Studio, $15.50; A. H. Maynard, $2.10; Times P. & P. Co., Ltd., $12.75		31 60	
	Headquarters			$ 22,820 02
	POLICE DIVISIONS.			
	Boundary District.			
	Salaries ($10,509.22):			
	F. G. Brown ....$ 773 50	R.M.Robertson$ 735 00		
	C. F. Evans 789 00	N. V. Rothwell 215 00		
	J. A. Fraser 1,974 00	A. E. Spall .. 1,380 00		
	F. J. Fryer 928 24	G. Stanfield .. 306 83		
	G. F. Killam .. 1,060 65	W. B. Stewart 1,398 00		
	G. Logan 385 00	D. A. Terhune 504 00	$ 10,449 22	
	Special Constables		60 00	
			$ 10,509 22	
	Expenses ($9,292.33):			
	Office Supplies, etc.:			
	B.C. Telephone Co., Ltd., $220.25; C.P.R. Telegraphs, $26.71; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Express Co., $7.15; Dominion Government Telegraphs, $146.30; Great Northern Express Co., $1.05; Kettle Valley Railway Co., 77c.; R. E. Lodwick, $12; postage, $126.50; Wrigley Directories, $10		551 98	
	Travelling Expenses and Transportation:			
	F. G. Brown, $152.95; W. Dunwoody, $18.75; C. F. Evans, $38.10; J. A. Fraser, $427.30; F. Fryer, $125.80; G. F. Killam, $242.16; G. Logan, $61.05; R. M. Robertson, $132.90; A. E. Spall, $191.65; G. Stanfield, $151.25; W. B. Stewart, $612.85; D. A. Terhune, $230.25			
	Purchase and Upkeep of Autos, etc.:			
	E. E. Burr, $1,187.86; C.P.R. Co., $1.40; Dominion Express Co., $2.70; Dominion Rubber			
	Carried forward		$ 11,061 20	$ 22,820 02 $ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Boundary District—Continued.			
	Brought forward	$ 11,061 20	$ 22,820 02	$ 455,389 42
	Expenses—*Continued.*			
	Travelling Expenses and Transportation—*Continued.*			
	Purchase and Upkeep of Autos, etc.—*Continued.*			
	System (Pacific), Ltd., $79.06; Grand Forks Garage Co., Ltd., $3,443.32; Grand Forks Hotel, $4.95; Greenwood Garage, $44.75; H. J. Holman, $80.34; Imperial Oil, Ltd., $4.85; Lee & Bryan, $111.95; licences, $83; Matthews Garage, $33.75; L. W. Mickle, $103.70; Mickle & Hill, $60.75; G. E. Murray, $11.75; E. McMynn, $70.43; C. Nichols, $2; Palace Livery, $7; Phelps & Mickel, $7.60; W. C. Wilson, $21	7,747 17		
	Uniforms, Clothing, and Equipment:			
	J. H. Goodwin, $1; Manly's Hardware Co., $1.80; Miller & Gardner, 50c.; E. Mills, $1.30; A. L. White, $1.90	6 50		
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	Co-operative Society Store, 75c.; C. Hunter, $24; H. B. Meausette, $5; E. McMynn, $9.30; H. Pannell, $2.50; A. Stookie, $6	47 55		
	Fuel, Water, Light, etc.:			
	J. F. Fleming, $18; Hedley Gold Mining Co., $14.40; G. G. Keeler, $8.25; E. Mills, $9.50; E. McMynn, $54; R. Norris, $175; Princeton Coal & Land Co., Ltd., $22; J. P. Thomas, $80	381 15		
	Provisions:			
	S. E. Brown, $3.50; Chong Wing, $72.50; G. F. Killam, $33; Pacific Hotel, $38.50; Summers & Wardle, $32.25; C. Trehearne, $12.75	192 50		
	Incidentals and Contingencies:			
	J. M. Burnett, $10; Dominion Express Co., $10.50; W. S. Garrison, $1.75; Grand Forks Gazette, $7.50; Great Northern Express Co., $8.50; S. T. Hull, $10.80; C. M. Kingston, $5; W. O'Donnell, $4.50; P. C. Peterson, $2; W. B. Stewart, $10.93; W. Truax, $5; *re* search for J. D. McDonald, $289	365 48		
	Boundary District		19,801 55	
	Fort George District.			
	Salaries ($18,511.23):			
	G. E. Ashton ...$ 600 00 W. R. Henley .$1,518 00			
	H. Avison ..... 1,572 00 H. H. Mansell 1,638 00			
	C. G. Barber ... 1,501 50 H.J.McDougall 400 00			
	E. J. Breckon .. 469 93 A. McNeill .. 1,770 00			
	M. J. Condon ... 1,286 00 T.W.S.Parsons 2,364 00			
	A. E. Farey .... 120 62 S. Service ... 1,320 00			
	M. Gorman ..... 978 00 T. van Dyk .. 1,497 10			
	F. Heckmiller ... 477 58	$ 17,512 73		
	Special Constables	998 50		
		$ 18,511 23		
	Expenses ($14,665.85):			
	Office Supplies, etc.:			
	Canadian Express Co., $35.71; Canadian National Railways, $5.46; Dominion Government Telegraphs, $25.53; Dominion of Canada Guarantee & Accident			
	Carried forward	$ 18,511 23	$ 42,621 57	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Fort George District—Continued.			
	Brought forward	$ 18,511 23	$ 42,621 57	$ 455,389 42
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	Insurance Co., $1.25; Fort George & Alberta Telephone and Electric Co., $114; G.T.P. Railway Co., $268.68; G.N.W. Telegraph Co., $21.77; W. R. Henley, $2.20; R. E. Lodwick, $5; J. Munro, $1.10; Nechako Drug Co., $1.50; J. O'Leary, $2.30; postage, $228.89; Prince George Drug Co., $1; R. W. Skinner, $2; Vancouver Typewriter Co., $1.50; Wrigley Directories, Ltd., $10	727 89		
	Travelling Expenses and Transportation:			
	F. Antoine, $5.60; G. E. Ashton, $269.75; G. Bain, $33.30; C. G. Barber, $333.85; E. J. Breckon, $191.35; M. J. Condon, $852.13; J. Fife, $7.35; M. Gorman, $248.82; W. R. Henley, $941.70; F. Heckmiller, $624.73; W. Johnson, $68.75; H. H. Mansell, $248.70; J. W. Miers, $22.75; H. J. McDougall, $103.95; M. G. McLeod, $37.35; A. McNeill, $957.11; T. W. S. Parsons, $832.47; I. Patrick, $5.60; S. Service, $345.50; J. Slash, $6.75; R. Strange, $8.45; T. van Dyk, $747.31			
	Upkeep of Autos, etc.:			
	E. W. Anderson, $95; Canadian Express Co., $4.75; E. Hall, $498.10; H. J. Holman, $72.08; K. A. Houghtaling, $11.65; Leith Bros., $82.52; licence, $15; Morgan & Mellson, $6; Northern Hardware Co., $354.57; H. G. Perry, $6; E. B. Smith, $5.25; W. H. Woodford, $12.75	8,077 14		
	Furniture and Fixtures:			
	Canadian Express Co., 55c.; G.T.P. Railway Co., $19.80; Macey-Abell Co., Ltd., $92; McBride Trading Co., $10; Northern Hardware Co., $42.50; Prince George Furniture Co., $4.25; Rush Transfer Co., $1; F. Seager, $10	180 10		
	Uniforms, Clothing, and Equipment:			
	B. Baird, $60.96; M. E. Burger, $3.45; L. N. Gowdy, $2.20; Leith Bros., $13.42; E. A. Mitchell, $6.20; McBride Trading Co., $1.80; Northern Hardware Co., $40.25; Prince George Drug Co., $4.85; M. Sales, $259.50; S. J. Watson, 70c.	393 33		
	Rents:			
	W. W. Clark, $15; G.T.P. Railway Co., $1; Hudson's Bay Co., $150; T. O'Leary, $240; United Grain-growers' Sawmills, Ltd., $69.50	475 50		
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	C. W. Blackstock, $7; W. Blair, $6; J. Bronger & Flynn, $528.23; Canadian Express Co., $6.83; F. Chilton, $12; Evans, Coleman & Evans, Ltd., $38.88; W. Gibson, $15; Goodman Supply Co., $29.25; L. N. Gowdy, $1.50; Harper-Gross, Ltd., $5; C. Hartley, $3.85; W. R. Henley (sundry accounts), $16.70; L. A. Johnson, $800; W. Johnson, $3; J. M. Johnston, $1.25; Kline & Mackeen, $178.20; R. Klohn, $7.20; Leith Bros., $14.80; Little Lumber Co., $25.75; R. Lundgran, $30; J. F. Mintz, $20; E. A. Mitchell, $15.80; McBride Trading Co., $5.95; F. G. McDonald, $4; J.			
	Carried forward	$ 28,365 19	$ 42,621 57	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Fort George District—Continued.			
	Brought forward	$ 28,365 19	$ 42,621 57	$ 455,389 42
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, Grounds, etc.—*Continued.*			
	McNamara, $1.50; Northern Hardware Co., $139.11; G. Nystrand, $2.13; Prince George Furniture Co., $49.20; J. Renshaw, $4; Rex Electric Supply Co., $11.25; J. Riley, $1.50; Rush Transfer & Storage Co., $1.50; F. Seager, $5.85; E. B. Smith, $25.50; United Grain-growers' Sawmills, Ltd., $1.55; West Disinfecting Co., $47.26; G. B. Williams, $98.50	2,165 04		
	Fuel, Water, Light, etc.:			
	M. Averhill, $165; C. W. Blackstock, $62.50; City of Prince George, $136.95; Goodman Supply Co., $15.50; G.T.P. Railway Co., $1; J. M. Johnston, $1.30; T. R. Lloyd, $40; McBride Trading Co., $13.20; V. McDonald, $12; J. McNamara, $33; J. Renshaw, $450; Rex Electric Supply Co., $8.10; F. J. Seager, $23.35; E. B. Smith, $24.20; United Grain-growers' Sawmills, Ltd., $22.70; F. B. Weaver, $52.50; W. Winterton, $400	1,461 30		
	Provisions:			
	P. Burns & Co., Ltd., $48.85; Canada Railway News Co., Ltd., $4.50; Fort George Drug Co., 35c.; Golder & Weiland, $231.30; S. O. Henley, $4.80; J. Mohagan, $13.50; Prince George Drug Co., $7.50; G. B. Williams, $616.95	927 75		
	Incidentals and Contingencies:			
	K. Anderson, $6.20; C. G. Barber, $6; Canadian Express Co., $37.76; D. Corless, $5; Fort George Drug Store, $6.66; G.T.P. Railway Co., $6.93; L. N. Gowdy, 65c.; G. Hatlelvedt, $13; W. R. Henley, $4.80; Hudson's Bay Co., $20; L. C. Jamieson, $1.65; G. Krauss, $3.25; R. E. Lodwick, $16; E. J. Lyon, $28; E. A. Mitchell, $8.60; H. J. McDougall, $19.15; G. McLaughlin, $3.40; J. Newick, $3; Northern Hardware Co., $4.75; T. W. S. Parsons, $5; S. Petersky, $5; Prince George Drug Co., $10.60; Prince George Undertaking Co., $20; Rush Transfer & Storage Co., $1; J. Simonson, $17.40; W. Skinner, $4	257 80		
	Fort George District		33,177 08	
	Fort St. John District.			
	Salaries ($7,308.64):			
	C. G. Barber ... $ 151 50 / I. Gunnell ... $ 630 65			
	G. J. Duncan .. 829 00 / M. G. McLeod 165 00			
	W. A. S. Duncan 1,301 34 / E. Reeves ... 107 64			
	E. Forfar ..... 1,088 71 / H. Taylor ... 1,968 00			
	J. A. Freeman .. 1,008 80	$ 7,250 64		
	Special Constables	58 00		
		$ 7,308 64		
	Expenses ($5,536.58):			
	Office Supplies, etc.:			
	F. J. Bergan, $2; C.P.R. Telegraphs, $9.17; Dominion of Canada Guarantee & Accident Insurance Co., $3.75; Dominion Government Telegraphs,			
	Carried forward	$ 7,308 64	$ 75,798 65	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Fort St. John District—Continued.			
	Brought forward	$ 7,308 64	$ 75,798 65	$ 455,389 42
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	$173.87; Edmonton, Dunvegan & British Columbia Railway Co., $12.86; Ingenika Gold Mining Co., 50c.; King's Printer, $5; H. Larsen, $4.16; J. McEachern, 50c.; postage, $73; Wrigley Directories, $10	294 81		
	Travelling Expenses and Transportation: C. G. Barber, $305.66; G. J. Duncan, $311.03; W. A. S. Duncan, $264.10; E. Forfar, $75.40; J. A. Freeman, $194.70; E. Reeves, $153.67; H. Taylor, $379.25			
	Purchase of Horses, Feed, Canoes, etc.: H. G. Atkinson, 50c.; A. Austin, 90c.; J. W. Beattie, $200; B. E. Carmichael, $95; Federal Transportation Co., Ltd., $423.80; G. E. Freer, $50; O. M. Gibbs, $5.75; G. F. Hart, $2.50; Haryett & Co., $6; T. Hasler, $63.10; J. Hewitt, $12; G. Howe, $230; Hudson's Bay Co., $13.55; C. H. Jones & Son, Ltd., $46.50; Lamson & Hubbard, $5.50; C. F. LeRoy, $35.40; N. G. Mackinnon, $17; R. J. Ogilvie, $31.75; Peace River Development Corporation, Ltd., $8.25; Peace River Navigation Co., $8; Peace River Trading Co., Ltd., $3.60; H. Phillips, $2; B. Pierce, $50; Pouce Coupe Trading Co., $2.25; D. D. Puckett, $150; W. B. Simpson, $7.50; Storey & Campbell, $265; Tisdall's, Ltd., $4; J. Turner, $120; R. Vanhove, $45; R. White, $9	3,597 66		
	Furniture and Fixtures: G. J. Duncan	50 00		
	Uniforms, Clothing, and Equipment: H. G. Atkinson, $41.90; Central Canada Express Co., $6.50; Crummy Bros., Ltd., $10.30; Federal Transportation Co., $4.55; H. Gregory, $15; Hudson's Bay Co., $111; C. Nelson, $1.55; Pouce Coupe Trading Co., $2.85; Somerville Hardware Co., Ltd., $1.80; Trainor Hardware Co., $5; F. Wagner, $3..	203 45		
	Rents: L. G. Fredette, $180; F. C. Hasler, $390; I. E. Haight, $165	735 00		
	Maintenance and Repairs of Buildings, Grounds, etc.: H. G. Atkinson, $3.95; L. D. Fredette, $75; E. Forfar, $12; Haryett & Co., $4; F. Haskins, $4.05; Hingston-Smith Arms Co., $3.40; Hudson's Bay Co., $2; Lamson & Hubbard Co., $14.65; R. J. Ogilvie, $25; Peace River Trading Co., $6.65; Pouce Coupe Trading Co., $5.25; Revillon Freres Trading Co., $1.25	157 20		
	Fuel, Water, Light, etc.: R. Baxter, $20; J. Beattie, $21; Federal Transportation Co., $9; J. H. Fynn, $15; I. Gunnell, $66; F. Haskins, $4.50; Hudson's Bay Co., $29.15; G. A. James, 40c.; E. Laloge, $7.50; C. F. LeRoy, $12; E. A. Lord, $22.65; R. J. Ogilvie, $118.86; Peace River Trading Co., $7; Pouce Coupe Trading Co., $15.25; Spirit River Hardware, $6.25; Thomson Hardware Co., $2; J. Turner, $8; Van Fellers, $53	417 56		
	Carried forward	$ 12,764 32	$ 75,798 65	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Fort St. John District—Continued.			
	Brought forward	$ 12,764 32	$ 75,798 65	$ 455,389 42
	Expenses—*Continued.*			
	Provisions:			
	F. Bergham, $2.45; W. A. S. Duncan, $74.50; W. H. Wilson Co., Ltd., $1.25	78 20		
	Incidentals and Contingencies:			
	Federal Transportation Co., Ltd., $1.20; P. Mackay, $1.50	2 70		
	Fort St. John District		12,845 22	
	Hazelton District.			
	Salaries ($9,732.71):			
	P. Carr .....$1,403 00 J. Kelly $1,836 00			
	S. Cline ..... 1,458 00 S. Service ... 100 00			
	A. Fairbairn.... 1,638 00 W. J. Service 1,638 00			
	R. W. Franklin.. 208 21 H. Walker ... 550 00	$ 8,831 21		
	Special Constables	901 50		
		$ 9,732 71		
	Expenses ($7,573.52):			
	Office Supplies, etc.:			
	Canadian Express Co., $17.62; City Transfer Co., $1.75; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Government Telegraphs, $240.11; R. W. Franklin, $3.60; G.T.P. Railway Co., $47.21; Macey-Abell Co., Ltd., $104.50; W. J. O'Neill, $5.20; postage, $108.05; Wrigley Directories, $10	539 29		
	Travelling Expenses and Transportation:			
	J. Brennan, $4.50; P. Carr, $632.45; S. Cline, $339.55; A. Fairbairn, $650.05; R. W. Franklin, $268.10; E. M. Jacques, $46.80; J. Kelly, $386.25; P. Salice, $15.40; S. Service, $58; W. J. Service, $386.75; H. Walker, $348.60			
	Purchase and Upkeep of Auto, etc.:			
	J. M. Adams, $3.10; Broughton & McNeil, $12.20; Campbell & McBain, $5.90; Canadian Express Co., $1.70; S. A. Eby, $5; W. S. Henry, $1.059.30; H. J. Holman, $39.40; licence, $18; J. MacKay, $8.60; W. J. O'Neill, $143.85; Ruddy & MacKay, $15.40; R. S. Sargent, Ltd., $90.20	4,539 10		
	Furniture and Fixtures:			
	J. Bartholomew & Sons, $75.84; G.T.P. Railway Co., $5.68; A. E. Phillips, $45; R. S. Sargent, Ltd., $19; R. Slaker, $6	151 52		
	Uniforms, Clothing, and Equipment:			
	J. M. Adams, $1.40; Broughton & McNeil, 65c.; A. Chisholm, $2.50; S. Cline, 75c.; R. Cunningham & Son, Ltd., $3; Hudson's Bay Co., $20; J. Kelly, $1.15; J. N. O'Neill, $6.35; A. Plewer, 45c.; R. D. Prosser, $2.50; R. S. Sargent, Ltd., $20.50; T. Smith, 90c.	60 15		
	Rents:			
	A. Higgins, $162; E. E. Orchard, $270	432 00		
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	J. M. Adams, 75c.; I. A. Arnold & Son, $40; A. Chisholm, $4.10; R. G. Congdon, $1.75; R. Cun-			
	Carried forward	$ 15,454 77	$ 88,643 87	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Hazelton District—Continued.			
	Brought forward	$ 15,454 77	$ 88,643 87	$ 455,389 42
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, Grounds, etc.—*Continued.*			
	ningham & Son, Ltd., $7.10; S. A. Eby, $1.35; G.T.P. Railway Co., $35.15; Hudson's Bay Co., $8; C. E. Imeson & Co., $158.70; J. MacKay, $125.01; Ruddy & MacKay, $201.10; R. S. Sargent, Ltd., $5.75; J. L. Shaw, $5; Soo Dip, $49.50; Stearns Hardware Co., $74.35	717 61		
	Fuel, Water, Light, etc.:			
	F. Aslin, $5; Broughton & McNeil, $17; Burns Lake Garage, $6.25; City Transfer Co., $150.00; R. Cuningham & Son, Ltd., $104.40; Hudson's Bay Co., $25.50; C. McDonnell, $75; J. MacKay, $212.50; D. McMillan, $75; W. J. O'Neill, $58.50; R. S. Sargent, Ltd., $2.75; Stearns Hardware Co., $2.75; F. Watson, $4.10	738 75		
	Provisions:			
	J. M. Adams, 25c.; R. Cunningham & Son, Ltd., $38.40; J. Ham & Co., $83.25; Hudson's Bay Co., $21.65; Lee Sing, $1.25; Omineca Hotel, $1.95; R. S. Sargent, Ltd., $182.05	328 80		
	Incidentals and Contingencies:			
	City Transfer Co., $4; Dominion Express Co., $1.10; C. Durham, $20; Z. P. Gagne, $20; R. S. Sargent, Ltd., $8.75; A. Talls, 50c.; Up-to-Date Drug Store, $2.95; H. C. Wrinch, $9	66 30		
	Hazelton District		17,306 23	
	Kamloops District.			
	Salaries ($15,903.62):			
	G. H. Adam ....$1,842 00 J. J. McConnell $ 220 00			
	E. M. Bradner .. 144 19 D.A.McDonald 1,035 00			
	J. Eggleshaw ... 1,332 00 A. Noble 1,710 00			
	F. N. Emmott .. 1,398 00 R. Pritchard.. 1,478 00			
	W. L. Fernie ... 2,205 00 J. Urquhart .. 360 00			
	O. W. M. Hughes 876 93 H. H. Vickers 527 50			
	P. W. Jupp .... 1,338 00 W.H.H.Willes 854 00	$ 15,320 62		
	Special Constables	583 00		
		$ 15,903 62		
	Expenses ($13,181.31):			
	Office Supplies, etc.:			
	B.C. Telephone Co., Ltd., $428.43; C.P.R. Telegraphs, $59.74; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Express Co., $16.55; Dominion Government Telegraphs, $132.60; G.W. Telegraph Co., $9.11; Okanagan Telephone Co., $28.65; postage, $264.90; Sicamous Hotel, 40c.; Wrigley Directories, $10	951 63		
	Travelling Expenses and Transportation:			
	G. H. Adam, $975.15; P. Badman, $54; C. G. Barber, $46.80; E. M. Bradner, $137.25; F. G. Calder, $18.90; J. Christensen, $73.50; W. C. Dallin, $50.30; J. P. Eggleshaw, $483.55; F. N. Emmott, $736.55; W. L. Fernie, $1,019.64; C. Garland, $19.50; J. H. Harrington, $24; O. W. M.			
	Carried forward	$ 16,855 25	$105,950 10	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Kamloops District—Continued.			
	Brought forward	$ 16,855 25	$105,950 10	$ 455,389 42
	Expenses—*Continued.*			
	Travelling Expenses and Transportation—*Continued.* Hughes, $139; H. Jones, $32; P. W. Jupp, $389.56; J. J. McConnell, $56.80; D. A. McDonald, $320.72; A. Noble, $14.10; F. Plummer, $9.70; R. Pritchard, $578.70; J. Urquhart, $326.43; H. Vickers, $247.70; A. White, $11.75; W. H. H. Willes, $139.35			
	Upkeep of Autos, Launches, etc.: R. P. Bradley, $5.95; City Auto Livery, $1.90; N. S. Dalgleish, $2.65; G. Dillabough, $385.94; Dominion Express Co., $3.60; M. Dumond, $6.65; M. J. Finlayson & Co., $61.80; P. Freeman, $47.75; Gillis & Storts, $2.50; W. Hargraves, $821.50; F. E. Henderson, $25.56; H. J. Holman, $209.24; Kamloops Battery Service Station, $33.75; Kamloops Tire Hospital, $110.66; A. Laverture, $2.50; licences, $51; Marlatt & MacKenzie, $5.55; Nicola Valley Garage, $40.10; Safe, Ltd., $11.50; Ward Motor Co., $600.75; Wilcox-Hall Co., Ltd., $5	8,340 80		
	Furniture and Fixtures: N. S. Dalgleish, $4; Hudson's Bay Co., $28	32 00		
	Uniforms, Clothing, and Equipment: R. P. Bradley, $4; Canadian Northern Express Co., 40c.; N. S. Dalgleish, $9.15; G. Dillabough, $16.70; Dominion Express Co., $3.40; M. Dumond, $2.50; M. J. Finlayson & Co., $1.60; R. H. Gainer, 85c.; Johnson's Big Shoe House, $60.30; G. Key-Jones, $1.10; J. M. Lee, $4.50; Marlatt & MacKenzie, $24.65; Monte Creek Trading Co., $12; Mount Olie Farmers' Exchange, $2; D. McLaren, $1.45; Oakalla Prison Farm, $58.50; Summers & Frost, $20.15; C. L. Wain, $1.10	224 35		
	Rents: Black & Dunbar, $7.50; C.P.R. Co., $1; A. Kirkpatrick, $120; A. Laverture, $120; Monte Creek Trading Co., $136	384 50		
	Maintenance and Repairs of Buildings, Grounds, etc.: R. P. Bradley & Son, $17.50; C.P.R. Co., $19.01; N. S. Dalgleish, $79.95; G. Dillabough, $3.25; Farmers' Exchange Association, $36.55; M. J. Finlayson & Co., 45c.; H. Giddens, $3.90; G. Key-Jones, $36.35; M. Leedle, $5; Marlatt & MacKenzie, $58.22; J. Milton, $13.96; R. J. Miner, $125.10; D. A. McDonald, $1.50; R. McKay, $85; Ritchie Bros., $2.75; C. L. Wain, $36.67; C. W. Watts, $1.50; O. Widmark, $3; T. Wilson & Co., $14.25	543 91		
	Fuel, Water, Light, etc.: Adams River Lumber Co., Ltd., $122.14; H. J. Baker, $15; L. A. Caldwell, $82; C.P.R. Co., $46.20; P. Cotton, $60; N. S. Dalgleish, $6.15; Farmers' Exchange Association, $27.60; M. J. Finlayson & Co., $1.50; W. Hoole, $1.35; M. John, $49; City of Kamloops, $353.65; W. H. Kelly, $2.50; G. Key-Jones, $9.20; J. Latremouille,			
	Carried forward	$ 26,380 81	$105,950 10	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Kamloops District—Continued.			
	Brought forward	$ 26,380 81	$105,950 10	$ 455,389 42
	Expenses—*Continued.*			
	Fuel, Water, Light, etc.—*Continued.* $10.50; A. Laverture, $32.50; J. M. Lee, $6.80; H. Leedle, $15.50; Leedle & Lindquist, $8; H. Lund, $823.50; J. Milton, $72; Monte Creek Trading Co., Ltd., $20.10; R. McDonald, $78; J. J. Pawson, $15.75; A. Styer, $15.75; J. Tupper, $39	1,913 69		
	Provisions: C. G. Barber, $1.50; P. Burns & Co., Ltd., $131.48; J. H. Clements, $12.75; V. D. Curry, $271.29; A. Galloway, 65c.; R. McCall, $267.65; Wing Chong, $2.50	687 82		
	Incidentals and Contingencies: R. Bell, $5; Burris, Archibald & Burris, $15; City Auto Express, $2; Irving & Murphy, $5.50; City of Kamloops, $25; A. Laverture, $3; Mallery Drug Co., 35c.; F. J. Marrott, 55c.; S. S. Moss, $1.50; A. McLean, $20; Scales' Studio, $3.81; A. C. Taylor, $6.90; I. White, $14	102 61		
	Kamloops District		29,084 93	
	Kootenay (North-east) District.			
	Salaries ($9,650.47): J. M. Bella .... $ 703 50; F. H. Butwell .. 1,512 00; W. H. Dawson .. 550 00; B. E. Drew .... 525 00; A. H. Gatt ..... 285 00; J. Mead .....$1,578 00; J. Meredith .. 738 39; R. F. Mills .. 1,535 58; D.A.McDonald 315 00; R. J. Sutherland 1,908 00	$ 9,650 47		
	Expenses ($4,905.23): Office Supplies, etc.: C.P.R. Telegraphs, $70.40; Commercial Telegraph Office, $1.85; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Government Telegraphs, $97.25; C. B. Hume & Co., 45c.; postage, $104; Revelstoke, Trout Lake, Big Bend Tel. Co., $70.25; Wrigley Directories, Ltd., $10	355 45		
	Travelling Expenses and Transportation: J. M. Bella, $207.87; F. H. Butwell, $937.25; W. H. Dawson, $228.65; B. E. Drew, $34.90; A. H. Gatt, $266.58; J. Mead, $624.45; J. Meredith, $482.02; R. F. Mills, $105.15; D. A. McDonald, $99.34; R. J. Sutherland, $358.75 Upkeep of Autos: Ford Motor Co., $8.90; A. C. Hamilton, $26.20; Imperial Oil, Ltd., $68.66; Invermere Contracting Co., $94.41; licence, $10; D. R. Rolston, $9.15	3,562 28		
	Uniforms, Clothing, and Equipment: G. H. Howieson, 40c.; C. A. Warren, $6.90	7 35		
	Rents: C.P.R. Co.	1 00		
	Maintenance and Repairs of Buildings, Grounds, etc.: Albion Stove Works, $59.45; Arrowhead Water Co., $2.75; C.P.R. Co., $4.04; C. B. Hume & Co.,			
	Carried forward	$ 13,576 55	$135,035 03	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Kootenay (North-east) District—Continued.			
	Brought forward	$ 13,576 55	$135,035 03	$ 455,389 42
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, Grounds, etc.—*Continued.* $7.75; J. Kendrick, $1; J. Lake & Co., $1.15; Revelstoke Plumbing & Heating Co., $4; D. R. Rolston, $47.65; W. Shaw, $16.25; J. Trotter, $1; C. A. Warren, $2	147 04		
	Fuel, Water, Light, etc.: Arrowhead Water Co., $12; Columbia River Lumber Co., $23; A. C. Hamilton, $115.41; C. B. Hume & Co., $11.50; J. Lake & Co., $5.25; F. Larravie, $40; J. B. McGaghran, $79.10; J. Palumo, $9; J. Trotter, $8	303 26		
	Provisions: J. M. Bella, $63.45; City of Revelstoke, $27.50; Field Drug Co., $3; Lim You & Co., $17.10; Sunrise Restaurant, $50.40	161 45		
	Incidentals and Contingencies: B. Armstrong, $24.90; E. Bergenham, $5; O. Bland, $65.90; C. Duncan, $14; P. Ewart, $47; Golden Hospital Society, $41.50; J. H. Hamilton, $5; J. Henderson, $7; C. B. Hume & Co., $8.60; J. L. Lauthers, $63.40; W. J. Lightburn, $2.50; J. Low, $24.50; L. C. Masson, $17.35; W. Park, $4; A. Stephens, $22.75; S. Webber, $14	367 40		
	Kootenay (North-east) District		14,555 70	
	Kootenay (South-east) District.			
	Salaries ($24,155.97):			
	J. Bird .....$ 490 00 — H. Hughes ..$1,012 00			
	F. J. Brown .... 577 50 — H. D. Hughes. 525 00			
	J. W. Chadwick. 1,476 00 — C. Kerr 1,521 85			
	J. Clapham .... 717 35 — F. Knowles .. 200 00			
	A. W. Collins .. 1,326 00 — W. H. Laird.. 1,304 61			
	H. E. Couillard.. 731 50 — C. H. Martin. 1,386 00			
	G. W. Donahoe.. 81 29 — G. C. Mortimer 257 00			
	A. Dryden ..... 115 00 — S. J. McNally 1,476 00			
	A. Dunbar ..... 55 65 — E. A. Powers. 996 86			
	G. J. Duncan .. 796 50 — G. F. Price.. 90 63			
	W. R. Dunwoody 2,466 00 — G. W. Shipman 1,458 00			
	M. Gorman ..... 460 00 — W. Spiller... 1,160 00			
	H. Grainger .... 724 50 — J. Walsh 1,447 73			
	W. Hilton 1,157 00	$ 24,009 97		
	Special Constables	146 00		
		$ 24,155 97		
	Expenses ($17,066.25):			
	Office Supplies, etc.: B.C. Saddlery Co., Ltd., $12.18; C.P.R. Telegraphs, $94.39; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $26.65; Eastern B.C. Railway Co., $5.90; V. L. Farquhar, 75c.; Kootenay Telephone Lines, Ltd., $870.30; R. E. Lodwick, $1; postage, $303.70; Western Union Telegraph Co., $17.78	1,335 15		
	Travelling Expenses and Transportation: J. Bird, $138.85; F. G. Brown, $492.02; J. W. Chadwick, $238.10; J. Clapham, $127.60; A. W.			
	Carried forward	$ 25,491 12	$149,590 73	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Kootenay (South-east) District—Continued.			
	Brought forward	$ 25,491 12	$149,590 73	$ 455,389 42
	Expenses—*Continued.*			
	Travelling Expenses and Transportation—*Continued.* Collins, $1,047.65; H. E. Couillard, $223; G. W. Donahoe, $3.80; A. Dryden, $26.85; G. J. Duncan, $235.20; W. R. Dunwoody, $958.49; M. Gorman, $155.08; H. Grainger, $423.93; W. Hilton, $585.60; H. Hughes, $518.15; H. D. Hughes, $227.60; C. Kerr, $410.60; F. Knowles, $52.85; W. H. Laird, $379.50; C. H. Martin, $601.40; G. C. Mortimer, $183.62; J. McAlpine, $18.85; S. J. McNally, $8.20; E. A. Powers, $137.90; G. F. Price, $45.35; F. Sheers, $59.90; G. Shipman, $383.60; W. Spiller, $694.95; J. Walsh, $444.95			
	Purchase and Upkeep of Autos, etc.: M. A. Berrigan, $3.50; Cranbrook Vulcanizing Works, $14.70; Fernie Garage, $192.40; Fernie Motor Car Co., $438.32; W. R. Gibbs, $7.35; Hanson Garage, $1,805; licences, $35	11,319 86		
	Furniture and Fixtures: Trites-Wood Co., Ltd.	6 60		
	Uniforms, Clothing, and Equipment: Beattie-Noble, Ltd., $2.30; Beattie-Oatway, Ltd., 85c.; A. B. Davis, $1; Dominion Express Co. $4.45; Flathead Trading Co., Ltd., $5.95; Kimberley Drug Co., 75c.; McLeod & Harrison, $1.50; J. J. O'Neill, $1.05; J. D. Quail, $6.55; Trites-Wood Co., Ltd., $10.20; Waldo Mercantile Co., Ltd., $3.40; G. Wing, $4.50; Working Men's Co-operative Society, Ltd., $1.30; P. Zoratti, $1	44 80		
	Rents: Consolidated Mining & Smelting Co., $18; Corbin Coal & Coke Co., $120; Crow's Nest Pass Coal Co., Ltd., $24; J. H. Doyle, $74; Ross-Saskatoon Lumber Co., Ltd., $180	416 00		
	Maintenance and Repairs of Buildings, Grounds, etc.: A. Birnie, $1; Chinese Laundry, $2; Cranbrook Sash & Door Co., Ltd., $11.50; Crow's Nest Pass Coal Co., $13.50; G. Currie, $620; Currie Bros., $314; T. Duncan, $4; Flathead Trading Co., Ltd., $3.25; Golden Lion Trading Co., $25; R. Hirtz, $9.05; J. How, $2; H. Hughes, $150; H. Kershaw & Son, $3; G. A. Millett, $5.15; A. McLean, $189.95; Roosville Cash Stores, $1; Trites-Wood Co., Ltd., $9.90; W. Walsh, $5; J. Wirth, $8; Working Men's Co-operative Society, Ltd., $2.50 ..	1,379 80		
	Fuel, Water, Light, etc.: F. Allen, $6; A. Birnie, $5.50; Corbin Coal & Coke Co., Ltd., $58.30; Crow's Nest Pass Lumber Co., Ltd., $57; Crow's Nest Pass Coal Co., Ltd., $224.40; A. Dahl, $6; M. Edmonds, $82.50; A. Eimer, $90; Elko Water, Light & Power Co., Ltd., $12.50; Flathead Trading Co., Ltd., $1.30; Fort Steele Water Works Co., Ltd., $72; R. Hirtz, $12.40; H. Kershaw & Son, $14.25; F. LaBelle, $42; Mark Creek Trading Co., $15; Michel Water, Light & Power Co., Ltd., $22; E. Peppler, $5; Riley & Larson, $72; F. Roo, $2.50; Roosville Cash Stores, $2; Ross-Saskatoon Lumber Co., Ltd., $66;			
	Carried forward	$ 38,658 18	$149,590 73	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Kootenay (South-east) District—Continued.			
	Brought forward	$ 38,658 18	$149,590 73	$ 455,389 42
	Expenses—*Continued.*			
	Fuel, Water, Light, etc.—*Continued.*			
	Trites-Wood Co., Ltd., $5.75; Working Men's Co-operative Society, Ltd., $24.80; W. Walsh, $150; P. Zoratti, $14	1,063 20		
	Provisions:			
	City of Cranbrook, $622.50; City of Fernie, $560; A. W. Collins, $9; W. Hilton, $28; H. Hughes, $12.50; W. H. Laird, $83.50; C. H. Martin, $3; McLean's Drug & Book Store, $1; G. Shipman, $35.50; J. Walsh, $18	1,373 00		
	Incidentals and Contingencies:			
	F. Allen, $1.80; R. J. Binning, $10; L. Carosella, $4; D. Corsan, $9; Dominion Express Co., $23.59; T. H. Duncan, $11.25; G. Fisher, $3.50; Jang Fang, $7.80; C. Jansen, $44; J. P. Lewis, $1.75; J. F. Spalding, $3; N. E. Suddaby, $8.15	127 84		
	Kootenay (South-east) District		41,222 22	
	Kootenay (West) District.			
	Salaries ($14,290.12):			
	A. Arden $1,172 26; H. W. King $1,578 00; W. Crowe 666 86; H. McLaren 1,458 00; E. Gammon 1,974 00; A. M. Pearman 1,458 00; G. M. Gunn 1,338 00; P. Pentecost 1,578 00; J. F. Johnstone 1,578 00; E. A. Vachon 1,398 00	$ 14,199 12		
	Special Constables	91 00		
		$ 14,290 12		
	Expenses $7,494.27):			
	Office Supplies, etc.:			
	American Railway Express Co., $1.05; B.C. Telephone Co., Ltd., $370.20; Brouse Rural Telephone Co., $71.50; C.P.R. Telegraphs, $36.07; Creston Telephone Co., $47; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Express Co., $20.95; Dominion Government Telegraphs, $62.45; postage, $261.60; Western Union Telegraph Co., $1.77; Wrigley Directories, Ltd., $10	883 84		
	Travelling Expenses and Transportation:			
	A. Arden, $280.60; W. Crowe, $236.35; E. Gammon, $583.95; G. M. Gunn, $302.50; W. R. Jarvis, $91.55; J. F. Johnston, $283.15; H. W. King, $431.15; H. W. McLaren, $445.80; A. M. Pearman, $574.45; P. Pentecost, $196.15; R. Reid, $36.20; R. M. Robertson, $13; E. C. Stuart, $21.50; E. A. Vachon, $457.50			
	Purchase and Upkeep of Launch:			
	G. Jordan, $275; F. K. Littlewood, $500; Nakusp Trading Co., $89.35; Wagstaff & Vestrup, $1.75	4,819 95		
	Uniforms, Clothing, and Equipment:			
	Angell Hardware Store, 75c.; Byers-Giegerich-Green Co., $1.05; Creston Mercantile Co., 25c.; H. C. Davis, $1.50; Oakalla Prison Farm, $7; J. Smith, $4.50; S. A. Speers, $2.25; W. Kootenay Power & Light Co., Ltd., 70c.; Wood-Vallance Hardware Co., $10.90	28 90		
	Carried forward	$ 20,022 81	$190,812 95	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Kootenay (West) District—Continued.			
	Brought forward	$ 20,022 81	$190,812 95	$ 455,389 42
	Expenses—*Continued.*			
	Rents:			
	L. F. Tyson	270 00		
	Maintenance and Repairs of Buildings, Grounds, etc.: R. S. Bevan, $3; W. H. Cawley, $4.60; Creston Mercantile Co., $1.75; M. C. Donaldson, $6.50; Hardware & Furniture Supply Co., $2.15; E. Hayward, $21.40; T. H. Hoben, $3.10; C. Lindow, $1.95; H. S. McCreath, $2; Nakusp Trading Co., $3; W. R. Salisbury, $2.50; S. A. Speers, $19.50; Standard Furniture Co., $65.25; S. J. Towgood, 75c.; G. Trickett, $28.20	165 65		
	Fuel, Water, Light, etc.: T. Abriel, $126; Angell Hardware Store, 90c.; P. Angrignon, $223; Denver Light & Power Co., $66; Denver Waterworks Co., $36; Dominic Luke, $54; Goat Mountain Water Works Co., Ltd., $27; S. Hayward, $102; Huygens & Van Ackeren, $30; Imperial Oil, Ltd., $19.27; C. Lindow, $13.75; R. Masters, $40; H. S. McCreath, $40.34; Nakusp Trading Co., $29.60; Salmo Trading Co., $11.25; Sandon Waterworks & Light Co., $47; S. J. Towgood, $190; L. F. Tyson, $18	1,074 11		
	Provisions: A. Arden, $4.50; City of Cranbrook, $3; G. M. Gunn, $1.50; J. F. Johnston, $2; H. McLaren, $9; A. M. Pearman, $5; E. A. Vachon, $3.25	28 25		
	Incidentals and Contingencies: American Railway Express Co., $90.45; A. L. Cameron, $2; Dominion Express Co., $50.27; G. B. Henderson, $3; H. L. Lamb, $12; H. S. McCreath, $4; H. McLaren, $4; A. & J. McLim, $6; J. Sapples, $1; A. Saunders, $12; Trail Garage Co., $21.45; Trail Mercantile Co., $1.80; Western Box & Shingle Mills, Ltd., $12.60; E. W. Widdowson, $3	223 57		
	Kootenay (West) District		21,784 39	
	Lillooet District.			
	Salaries ($13,730.67):			
	F. E. Aiken $1,036 06; A. E. Farey $1,160 08; H. Ashby 780 24; C. S. Finlaison 130 85; G. E. Ashton 822 50; A. H. Gatt 250 83; E. O. Aves 1,102 50; G. H. Greenwood 1,428 00; G. Bell 1,488 00; F. Heckmiller 690 00; W. Bell 286 66; F. Higginbottam 1,398 00; G. A. Carter 851 42; W. Riley 579 20; H. C. Clarke 752 50; M. J. Condon 215 00; C. H. Dawson 530 33	$ 13,502 17		
	Special Constables	228 50		
		$ 13,730 67		
	Expenses ($14,680.58):			
	Office Supplies, etc.: A. M. Cameron, $10; C.P.R. Telegraphs, $1.50; Dominion of Canada Guarantee & Accident Insur-			
	Carried forward	$ 13,730 67	$212,597 34	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Lillooet District—Continued.			
	Brought forward	$ 13,730 67	$212,597 34	$ 455,389 42
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	ance Co., $1.25; Dominion Express Co., $2.10; Dominion Government Telegraphs, $407.15; Inland Express Co., $16.95; King's Printer, $6.15; R. E. Lodwick, $15.75; P.G.E. Railway Co., $9.86; postage, $124.95; Quesnel Telephone Co., Ltd., $26.45; Steel End Express Co., $3.25	625 36		
	Travelling Expenses and Transportation:			
	F. E. Aiken, $178.30; H. Ashby, $508.92; G. E. Ashton, $415.70; E. O. Aves, $823.30; G. Bell, $1,402.20; W. Bell, $133.25; F. G. Calder, $71.75; G. A. Carter, $514.80; J. Christofferson, $6.75; J. Clapham, $108.60; H. C. Clarke, $344.25; M. J. Condon, $101.50; H. Couillard, $90; C. H. Dawson, $351.48; A. E. Farey, $755.78; W. L. Fernie, $53.50; C. S. Finlaison, $113.45; A. H. Gatt, $334.80; G. H. Greenwood, $677.50; F. Heckmiller, $839.30; T. Higginbottom, $139.90; D. E. Kelly, $9; D. A. McDonald, $149.05; W. Riley, $457.85; J. Wall, $9.75			
	Purchase and Upkeep of Auto, Horses, etc.:			
	Ashcroft Veterans' Vulcanizing Shop, $12; A. E. Boyd, $234.90; A. B. Campbell, $156; Cariboo Trading Co., Ltd., $36.35; M. Dumond, $1,191.12; A. E. Farey, $80; R. Fraser, $326.93; H. J. Holman, $39.76; Hurley & Prosser, $100.33; T. C. Lee, $180; licence, 1921, $15; G. M. Olson, $51.40; G. E. Prosser, $65	11,079 47		
	Furniture and Fixtures:			
	R. Fraser, $10; Macey Office Equipment Co., Ltd., $84; N. A. Watt, $95; Weiler Bros., Ltd., $221.98	410 98		
	Uniforms, Clothing, and Equipment:			
	Cariboo Trading Co., Ltd., $2.50; Cowan Supply Co., $1.35; M. Dumond, $7.30; J. A. Fraser & Co., Ltd., $2.25; R. Fraser, $7.20; P. Garigan, 50c.; E. Kremin, $1; Louie Co., $9.90; C. A. Phair, 75c.; Wah Lee, 75c.; Yan War Co., $5.50	39 00		
	Rents:			
	F. Heckmiller	150 00		
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	A. E. Boyd, $19.45; Cariboo Trading Co., Ltd., $12; Cowan Supply Co., $86.95; M. Dumond, $2.45; C. Foyle, $15.65; R. Fraser, $30.50; W. S. Fraser & Co., Ltd., $30.85; Gang Kam Wing & Co., $2.15; P. Harland, $625.06; R. A. Leonard, $26; Louie & Co., $50.40; P.G.E. Railway Co., $23.31; W. S. Ritchie, $25; Woo King, $6	955 77		
	Fuel, Water, Light, etc.:			
	H. Andrew, $70; Cariboo Trading Co., Ltd., $19.50; Cowan Supply Co., $40; E. Dougherty, $70; O. Fitzpatrick, $45; R. Fraser, $4.85; T. Hamilton, $97.50; Hurley & Prosser, $5.50; Johnston Bros., $71.50; Louie & Co., $18.75; J. Middlemas, $20; R. M. Moore & Co., Ltd., $11.75; S. A. McFarlane, $15; B. Olson, $14; C. A. Phair, $10; G. Roberts, $30; J. S. Wheeler, $7	550 35		
	Carried forward	$ 27,541 60	$212,597 34	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Lillooet District—Continued.			
	Brought forward	$ 27,541 60	$212,597 34	$ 455,389 42
	Expenses—*Continued.*			
	Provisions: C. H. Allison, $3.90; G. Bell, $131; Clinton Hotel, $73.50; M. J. Greenwood, $435; W. Riley, $3; T. T. Weyenburg, $9	655 40		
	Incidentals and Contingencies: G. R. Baker, $31.50; S. E. Beech, $5; A. Boitanio, $9; M. J. Condon, $4.90; E. Docker, $3.50; Gong Kam Wing, $4; F. Heckmiller, $12; W. Hudson, $39.20; W. M. Huston, $2.40; M. Peters, $15; J. Parnell, $15; C. M. Ross, $65.25; S. W. N. Saunders, $3; S. T. Sorensen, $4.50	214 25		
	Lillooet District		28,411 25	
	Nanaimo District.			
	Salaries ($16,426.45):			
	C. E. L. Agassiz $ 220 00 — A. T. Stephenson $1,914 00			
	J. A. Anderson.. 810 00 — R. M. Stewart 633 33			
	H. B. Dawley.. 1,338 00 — J. H. Taylor. 700 00			
	W. G. Martin .. 725 80 — F. Varney ... 1,294 33			
	G. C. Mortimer 1,209 99 — J. A. Williams 1,398 00			
	A. D. I. Mustart 1,584 00 — H. N. Wood.. 1,518 00			
	J. Russell 1,518 00			
	W. V. Shepherd 1,320 00	$ 16,183 45		
	Special Constables	243 00		
		$ 16,426 45		
	Expenses ($10,863.64):			
	Office Supplies, etc.: B.C. Telephone Co., Ltd., $772.19; C.P.R. Telegraphs, $9.95; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Express Co., $6.25; Dominion Government Telegraphs, $35.80; E. & N. Railway Co., $1.53; postage, $267.30; United Typewriter Co., $4; Wrigley Directories, Ltd., $10	1,108 27		
	Travelling Expenses and Transportation: C. E. L. Agassiz, $54.85; J. A. Anderson, $262.85; H. B. Dawley, $820.83; W. G. Martin, $61.75; D. Mararitz, $10; G. C. Mortimer, $137.35; A. D. I. Mustart, $115.98; J. Richardson, $7.50; J. Russell, $305.98; W. V. Shepherd, $227.42; A. T. Stephenson, $511.78; R. M. Stewart, $436.05; J. Taylor, $119; F. Varney, $290.60; J. Wilder, $10; J. A. Williams, $247.80; H. N. Wood, $545.80			
	Purchase and Upkeep of Autos, etc.: G. D. Banasky, $26.60; Blunt & Ewart, $193.35; Cumberland Motor Works, $81.15; W. T. Dawley, $6.50; Dominion Express Co., $1.85; Dominion Rubber System (Pacific), Ltd., $87.26; Emde & Wain, $16.60; Fraser & Horne, $5.25; Harling & Ledingham, $73.90; H. J. Holman, $163.39; licences, $87; I. E. Lowe, $3.45; Port Alberni Garage, $4.60; Sampson Motor Co., $2,471; Stanford's Garage, $76.45; Wardill Bros., $2.75; D. Watson, $2.90; E. M. Whyte, $18.50	7,488 04		
	Carried forward	$ 25,022 76	$241,008 59	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Nanaimo District—Continued.			
	Brought forward	$ 25,022 76	$241,008 59	$ 455,389 42
	Expenses—*Continued.*			
	Furniture and Fixtures: C. Brown, $15; Macey-Abell Co., Ltd., $177.95; A. MacKinnon, $135.05	328 00		
	Uniforms, Clothing, and Equipment: P. Bennett, $1.50; H. B. Dawley, 80c.; W. T. Dawley, $7.35; Dominion Express Co., $1.10; F. J. Ellison, 50c.; B. Forcimmer, $10; Hargreaves Hardware Store, $4; Paine, McIntyre & Dopson, $5; Rushton's Garage, $3.75; Sampson Hardware Co., $13.25; Tarbell & Son, 75c.; W. H. Wain, $2.50; A. T. Walker, 60c.; H. N. Wood, 60c.	51 70		
	Rents: Corporation of Ladysmith, $60; Willows Hotel Co., $200	260 00		
	Maintenance and Repairs to Buildings, Grounds, etc.: T. E. Banks, $30; T. E. Bate, $9.10; T. Burns, $14; Cumberland Electric Light Co., $28.59; W. T. Dawley, $10; G. Forrest, $52; M. Hoffing, $12.50; S. Leiser & Co., $1.60; Morton Bros., $5.25; Paine, McIntyre & Dopson, $7.80; T. Ripley, $498.75; S. Shouldice, $6; Jim Tabo, $4; C. H. Tarbell & Son, $54.70; C. Willard, $1.65	735 94		
	Fuel, Water, Light, etc.: L. Alexander, $20; D. Bayne, $22.50; J. J. Burke, $18; Canadian Collieries, Ltd., $33.20; Campbell River Trading Co., $1.60; E. D. Comley, $33.75; City of Courtenay Lighting Co., $25.11; Cumberland Electric Light Co., $42.43; Cumberland-Union Water Works Co., $14.40; W. T. Dawley, $15.60; D. James, $35; P. Louise, $24; R. McQuillan, $94; A. W. Neill, $204.90; J. Resio, $2.50; C. H. Tarbell & Son, $2.25	589 24		
	Provisions: J. A. Anderson, $2.25; H. B. Dawley, $3.50; A. Gordon, $15; Kelly's Confectionery, $3; W. H. Philpot, $91.60	115 35		
	Incidentals and Contingencies: P. Bennett, $4.25; Campbell River Trading Co., $10.65; J. Carruthers, $5; City Taxi Cab Co., $3; Cumberland-Union Water Works Co., $22.90; Dominion Express Co., 35c.; B. Forcimmer, $20; J. B. Hodgins, $1.45; Joyner's Photographic Studio, 50c.; O. O. Lyons, $92.50; C. Morgan, $5; W. H. McIntyre, $10; T. J. McPhee, $5; Sampson Hardware Co., $3.50; J. Spencer, $3	187 10		
	Nanaimo District		27,290 09	
	Prince Rupert District.			
	Salaries ($20,887.73):			
	W. S. Ackroyd..$ 729 65	J.W.McIntosh $ 242 00		
	R. Beavan 1,428 00	A. D. MacLean 306 45		
	C. V. Brewer .. 1,064 50	E. Pinkerton.. 752 50		
	F. Broughton .. 1,458 00	R. P. Ponder. 1,518 00		
	D. S. Cameron.. 982 91	A. Saint 1,639 00		
	P. Carr 107 50	J. Scarlett ... 1,143 00		
	Carried forward		$268,298 68	$ 455,389 42

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
60.	PROVINCIAL POLICE—*Continued.*		
	POLICE DIVISIONS—*Continued.*		
	Prince Rupert District—Continued.		
	Brought forward	$268,298 68	$ 455,389 42
	Salaries—*Continued.*		
	A. Dryden ..... $1,320 50 G. C. Sharpe $ 473 00		
	A. Dunbar ..... 230 00 O. J. Smith .. 88 71		
	R. Gibson ..... 1,215 50 A. W. Stone.. 1,032 50		
	P. S. Jack ..... 699 00 H. Walker .. 220 00		
	A. C. Minty .... 2,100 00 R. Webster .. 1,398 00	$ 20,148 72	
	Special Constables	739 01	
		$ 20,887 73	
	Expenses ($14,269.56) :		
	Office Supplies, etc.:		
	Bella Coola Telephone Co., $11; Canadian Express Co., $2; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Express Co., $1; Dominion Government Telegraphs, $412.59; J. Eggert, $5; G.T.P. Telegraph Co., $19; McRae Bros., Ltd., $3.90; Pacific Mills, Ltd., 15c.; postage, $264.75; Prince Rupert City Telephone, $97.75; Terrace Rural Telephone Co., $17.50; Victoria Book & Stationery Co., Ltd., $3.81; Wrigley Directories, Ltd., $10	849 70	
	Travelling Expenses and Transportation:		
	W. S. Ackroyd, $799.50; C. W. Baker, $24.75; E. W. Baker, $53.20; R. A. Beavan, $512.65; C. V. Brewer, $183.85; F. Broughton, $535.05; D. S. Cameron, $140.45; P. Carr, $61; A. Dryden, $431.95; A. Dunbar, $282.24; W. H. Fairbairn, $89.55; R. Gibson, $132.90; P. S. Jack, $2; W. Jackson, $12.65; F. E. Litle, $5; A. C. Minty, $143.90; J. W. McIntosh, $189.40; A. D. MacLean, $68.65; E. Pinkerton, $202.05; R. P. Ponder, $628.50; A. Saint, $15.50; J. P. Scarlett, $163.55; G. C. Sharpe, $56.50; O. J. Smith, $28.80; A. W. Stone, $10.10; W. H. Vickers, $141.95; A. J. Walkinson, $15; H. Walker, $94.55; R. Webster, $373.05; W. A. Wisley, $1.25		
	Upkeep of Launches, etc.:		
	Akerberg, Thomson & Co., Ltd., $112.90; Albert & McCaffery, $23.35; J. Batt, $85; P. Bennett, $4.35; B. Bernard, $40; H. Bradley, $18; B.A. Paint Co., Ltd., $38.64; B.C. Canning Co., Ltd., $144.45; B.C. Fisheries, Ltd., $12; B.C. Packers' Association, Ltd., $123.65; Canadian Fairbanks-Morse Co., Ltd., $184.90; E. Christian, $10; Denny Allen Co., $61.96; E. Doreen, $42.50; Gosse-Millerd Packing Co., Ltd., $5.80; H. Gustavson, $52; C. Harrison, $219.80; Imperial Oil, Ltd., $676.69; S. Inkawa, $13.40; V. Isoya, $13.40; E. Jones, $25; Lands Department (Forest Branch), $61.17; R. H. Leighton, $35; Lipsett & Cunningham, $42.70; Lynch Bros. & McMeekin, $4.80; J. Martin, $77.20; Masset Timber Co., Ltd., $1.90; Munro Bros., $4.60; J. W. McIntosh, $9.75; McRae Bros., $3.15; Nanaimo Boat House, $1; Pacific Mills, Ltd., $372.18; Parkin Electric Co., $17.05; Prince Rupert Boat House, $5; Rolfe Storage		
	Carried forward	$ 21,737 43	$268,298 68 $ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Prince Rupert District—Continued.			
	Brought forward	$ 21,737 43	$268,298 68	$ 455,389 42
	Expenses—*Continued.*			
	Travelling Expenses and Transportation—*Continued.*			
	Upkeep of Launches, etc.—*Continued.*			
	Battery Co., $6.65; Royal Transfer Co., $1.95; Ship Chandlers, Ltd., 95c.; E. H. Shockley, $10.55; E. W. Singer, $33; J. F. Smith, $6.75; Steen & Longwill, $40; F. Stork, $2.75; A. Swanson, $105; Thompson Hardware Co., Ltd., $33.95; Ward Electric Co., $52.50; C. Weber, $10; F. W. Williamson, $12; A. & W. Wilson, $39.56	8,298 39		
	Uniforms, Clothing, and Equipment:			
	R. Cunningham & Son, Ltd., $4.85; F. W. Falconer, $14.20; R. Gibson, 60c.; E. Goodwin, 75c.; C. Harrison, $3.25; J. B. Kershaw, $31.15; F. Lazelle Co., $11.25; J. Martin, $6.45; Pacific Mills, Ltd., $1.50; Parkin & Ward Electric Co., $1.55; Pattinson, Ling & Co., $6.55; L. Schulz, $2.75; Telegraph Jack, $5; Thompson Hardware Co., Ltd., $12.50	102 35		
	Rents:			
	Granby Consolidated Mining, Smelting & Power Co., Ltd., $360; Taylor Engineering Co., Ltd., $105	465 00		
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	Aldred & Carruthers, $1; Bennett, Roberts & Co., $10; H. Carpenter, $20; A. C. Christenson, $8.35; E. Chyber, $1; Coulson Bros., $120; A. Dryden, $2.80; A. E. Edge Co., $85.68; T. W. Falconer, $32.90; W. S. Fraser & Co., Ltd., $16.14; M. Gandee, $13.13; Granby Stores, $1; G.T.P. Steamship Co., $1.70; C. Harrison, $122.10; L. K. Joe, $2.25; F. W. Kinmuir, $530; J. B. Kershaw, $2.25; J. H. Lawrence, $10; F. Lazelle, $180.15; F. E. Litle, $2; G. Little, $53.36; W. Mack, $6.75; J. Martin, $77.65; J. Mellor, $27.50; J. D. McMillan, $10; Ormes, Ltd., $4.25; Pacific Cartage, Ltd., $4.80; Pacific Mills, Ltd., $101.72; Royal Steam Laundry, $5.60; F. Ryan, $5; J. P. Scarlett, $80; Terrace Drug & Book Co., $2; Thompson Hardware Co., Ltd., $147.88; R. B. Young, $2.75; paylists (labour), $290.38	1,982 09		
	Fuel, Water, Light, etc.:			
	C. W. Baker, $190; B.C. Packers' Association, 90c.; Christie & Walton, $45; Cunningham & Son, Ltd., $10.50; T. E. Cutler, $14; F. W. Falconer, $177; Falconer & Armstrong, $2.85; J. Flewin, $7.50; Granby Consolidated Mining, Smelting & Power Co., Ltd., $64; D. L. Hall, $210; C. Harrison, $27.50; M. Johnston, $4.50; Kenny Bros., $14.90; S. N. G. Kirkcaldy, $90; G. Little, $12.53; J. Martin, $9; Masset Timber Co., Ltd., $2.65; J. Mellor, $20; J. A. McDonald, $20; M. J. McDonald, $22.50; Pacific Mills, Ltd., $166.25; Pattinson & Ling, $9.55; A. H. Perkins, $65; Port Essington Water Co., Ltd., $10; Skeena River Co-op. Association, $2.50; C. Spence, $16.50; I. Thompson, $70; Union Steamship Co., Ltd., $39 ..	1,324 13		
	Carried forward	$ 33,909 39	$268,298 68	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Prince Rupert District—Continued.			
	Brought forward	$ 33,909 39	$268,298 68	$ 455,389 42
	Expenses—*Continued.*			
	Provisions:			
	G. Ball, 75c.; R. A. Beavan, $14.50; W. Beynon, $6.75; B.C. Packers' Association, Ltd., $2.45; F. Broughton, $57.50; City of Prince Rupert, $247.50; A. Clark, $8.25; G. E. Derby, $30.45; F. Dodd, $7; A. Dryden, $44.50; R. Gibson, $39; Granby Bay Hotel, $3.50; J. W. Mackintosh, $192.80; M. J. McDonald, $165.10; Pacific Mills, Ltd., $25.30; R. P. Ponder, $82.50; E. M. Scarlett, $17.25	945 10		
	Incidentals and Contingencies:			
	E. Anderson, $20; R. A. Beavan, 70c.; B.C. Packers' Association, $2.35; L. Broe, $5; A. Brunich, $125; J. Christie, $17; H. T. Cross, $20.50; C. A. Eggert, $5; J. Eggert, $5; H. K. Freeman, $20; E. Goodwin, $1; H. Hanuse, $5; T. Howey, $7; F. E. Litle, $2; Norris Safe & Lock Co., Ltd., $2; Ormes, Ltd., $18.75; Pacific Cartage, Ltd., $10.35; Prince Rupert Transfer, $5; Provincial Canning Co., Ltd., $2.65; St. George's Hospital, $7.50; H. E. Tremayne, $21	302 80		
	Prince Rupert District		35,157 29	
	Vancouver District.			
	Salaries ($47,293.25):			
	C. E. L. Agassiz. $ 54 84	J. Macdonald. $1,716 00		
	E. O. Aves 94 25	F. D. Markland 1,345 50		
	T. R. Baker ... 703 00	S. Marshall .. 1,363 50		
	S. Becker 423 00	R. L. Matthews 1,398 00		
	H. P. T. Blackwood 233 75	F. G. Morant. 21 00		
		P. M. Morrey 1,268 72		
	A. R. Brush.... 156 00	J. Murray ... 1,104 00		
	J. Callender 1,206 00	R. G. MacBeath 595 83		
	W. H. Cameron. 1,386 00	G. MacPenrose 147 00		
	J. S. Craig 256 83	E. McArthur. 1,386 00		
	F. Cruickshank.. 1,848 00	H. J. McDougall 1,058 00		
	R. A. Cumming.. 525 81	J. W. McIntosh 253 33		
	J. G. Cunningham 1,452 00	S. North 1,650 00		
	H. H. Duggan .. 119 35	W. Owen 2,640 00		
	W. V. Fenton .. 1,320 00	A. G. Paige .. 291 00		
	F. French 1,320 00	F. E. L. Philp. 286 66		
	F. W. Gallagher 578 38	H. C. Pyke... 1,485 00		
	W. A. Green 525 81	J. Renner ... 1,518 00		
	A. Grundy 1,441 33	J. Robinson .. 287 50		
	W. H. Hadley .. 1,338 00	S. S. Saunders 1,368 00		
	W. H. Handley.. 1,667 00	D. Scott 715 00		
	D. H. Henderson 55 59	W. Swindell.. 444 00		
	L. Hellier 333 00	L. B. Taylor.. 51 00		
	J. T. Hincheliffe 572 00	J. Urquhart .. 167 74		
	J. A. Hird 491 61	W. J. Voisey. 1,518 00		
	W. F. Islip 1,206 00	W. J. Walker 129 03		
	E. P. Kearns .. 286 34	G. Williams.... 725 81		
	H. A. Laughlin.. 1,320 00	W. A. Wisley.. 220 00		
	R. G. W. Lloyd 69 00	W. J. Wismer 267 74		
	G. Logan 105 00	R. D. Young .. 735 00	$ 47,244 25	
	Special Constables		49 00	
	Carried forward		$ 47,293 25	$303,455 97 $ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Vancouver District—Continued.			
	Brought forward	$ 47,293 25	$303,455 97	$ 455,389 42
	Expenses ($24,565.65):			
	Office Supplies, etc.: B.C. Telephone Co., Ltd., $670.95; Burroughs Adding Machine Co., $387.10; C.P.R. Telegraphs, $166.94; Chilliwack Telephone Co., Ltd., $49.45; Clarke & Stuart Co., Ltd., $32.10; Delta Telephone Co., $18.30; Dominion of Canada Guarantee & Accident Insurance Co., $20; Dominion Express Co., $32.25; Dominion Government Telegraphs, $104.82; G.N.W. Telegraph Co., $4.73; Mission City Telephone Co., Ltd., $36; Office Specialty Co., $92.31; postage, $483.90; Wrigley Directories, Ltd., $30	2,128 85		
	Travelling Expenses and Transportation: C. E. L. Agassiz, $23.25; T. R. Baker, $215.93; J. Banham, $6; S. Becker, $185.49; H. Blackwood, $21.85; J. Callander, $336.10; W. H. Cameron, $342.86; F. Cruickshank, $78.07; R. A. Cumming, $111.40; J. G. Cunningham, $348.99; H. M. Duggan, $14.80; W. V. Fenton, $113; F. French, $112.95; W. A. Green, $90.40; W. H. Hadley, $664.10; W. H. Handley, $201.07; L. Hellier, $9.10; D. H. Henderson, $52.50; J. T. Hinchcliffe, $12.70; J. A. Hird, $118.95; W. F. Islip, $258.84; E. P. Kearns, $148.50; H. A. Laughlin, $240; R. G. W. Lloyd, $2.85; G. Logan, $9.55; J. Macdonald, $112.91; F. D. Markland, $264.15; S. Marshall, $523.80; R. Matthews, $563.31; F. G. Morant, $17.80; P. M. Morrey, $6.70; J. Murray, $119.20; R. G. MacBeath, $66; G. MacPenrose, $78.10; H. J. McDougall, $86.32; J. W. McIntosh, $126; S. North, $107.20; W. Owen, $181.10; D. Paul, $4.50; F. E. L. Philp, $24.05; W. Pusswood, $31.55; H. C. Pyke, $703.96; J. Renner, $134.40; S. S. Saunders, $145; D. Scott, $210.70; W. Swindell, $32.80; L. B. Taylor, $6.75; J. Urquhart, $33.70; W. Voisey, $24; W. J. Walker, $43.69; G. Williams, $92.35; W. A. Wisley, $18.85; R. D. Young, $181.07			
	Purchase and Upkeep of Autos, Launches, etc.: W. E. Adams, $348.45; H. Alanson, $2.70; J. Anderson, $10; Armstrong Bros., $515.40; Auto Radiator & Lamp Co., $6; G. T. Baker, $158.35; G. H. Beckett, $123.10; B.C.E.R. Co., Ltd., $129.78; B.C. Fishing & Packing Co., $34.80; B.C. Packers' Association, $23.32; A. R. Brush, $41.80; C.P.R. Co., $7.70; Cedar Boat House, $33.25; Crawford Battery Co., $6.10; F. Cruickshank, $70; V. M. Dafoe, $50; Dixon Motors, Ltd., $1,485.35; Dominion Rubber System (Pacific), Ltd., $149.16; Drake Hardware Co., $19.40; W. J. Dunseith, $6.60; Easthope Bros., $10; Eburne Gravel Co., $10.05; Eburne Saw Mills, Ltd., $2.28; Ferrier & Lucas, $184.50; Goodyear Tire & Rubber Co., $13; Hargitt Motors, Ltd., $35.14; T. N. Hibben & Co., Ltd., $2.40; Hill, Ltd., $151.82; H. J. Holman, $197.87; Huson & Clarke, $75; Imperial Oil, Ltd., $1,294.54; W. Jackson, $69; W. R. Jaynes,			
	Carried forward	$ 49,422 10	$303,455 97	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Vancouver District—Continued.			
	Brought forward	$ 49,422 10	$303,455 97	$ 455,389 42
	Expenses—*Continued.*			
	Travelling Expenses and Transportation—*Continued.*			
	Purchase and Upkeep of Autos, Launches, etc.—*Continued.*			
	$3.30; C. H. Jones & Son, Ltd., $16.70; Knight-Higman Motors, Ltd., $1,428.81; licences, $135; S. Logan, $3; R. G. Macauly, $5; J. Macdonald, $6; J. D. Macdonald, $1,980; E. B. Marvin & Co., $205.76; W. R. Menchions, $69.10; Mission Gas & Storage Co., Ltd., $46.59; W. T. McArthur, $45.27; J. McMenemy, $12; F. Newman, $25; Pacific Standard Motor Works, $26; Pascoe & Co., $92.20; Powell River Co., Ltd., $230.39; J. R. Randall, $24; Restmore Manufacturing Co., Ltd., $49.17; Ridley & Kennedy, $1,367.14; River Lumber Yard, $34.48; Royal Oak Garage, $8; Sankey and Manson, $53.29; Simpson-Balkwill & Co., $143.55; C. E. Smithson, $12; Smith & Champion, $22; D. Spencer, Ltd., $15.15; C. Spring, 90c.; Standard Motors, Ltd., $357.37; J. A. Stuart, $2; J. T. Summerfield, $36; C. Weir, $211.25; Wright & Johnson, $59	19,651 49		
	Furniture and Fixtures:			
	Dixon & Murray, $45.26; Fraser Hardware Co., $5.95; W. T. McArthur & Co., Ltd., $6.75; McLennan, McFeely & Co., Ltd., $112.79; Robertson & Hackett Sawmills, Ltd., $4.49	175 24		
	Uniforms, Clothing, and Equipment:			
	O. B. Allan, $127.50; Crawford Battery Co., Ltd., $2.50; J. G. Cunningham, $1.30; J. C. Duggan, $1; Electric Supply & Contracting Co., Ltd., $2.25; W. V. Fenton, $2.70; L. C. Fraser, $11.60; W. B. Goldie, 40c.; Hume & Rumble, 80c.; W. Kennedy, $2.30; C. Knox, $5; Muir Electric Co., $9.20; McLennan, McFeely & Co., Ltd., $17.80; Powell River Drug Co., $1.70; A. G. Ramsay, 90c.; Share Bros., Ltd., $2.15; Squamish Hardware Co., $4.55; Sumas Hardware Co., $2.40; Tisdall's, Ltd., $48.31; T. J. Trapp & Co., Ltd., $4.05	248 41		
	Rents:			
	Britannia Stores, $120; H. Fraser, $108; U. Weatherbe, $36	264 00		
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	H. Alanson, $20; J. Brand & Co., $29.25; B.C. Packers' Association, $42.50; Britannia Stores, $5.25; C.P.R. Co., $12.35; Haskins & Elliott, $2.20; R. Mackenzie, $5.10; A. Munro, $87; W. T. McArthur & Co., Ltd., $13.45; Powell River Co., Ltd., $13.43; Squamish Hardware Co., $28.80; J. & J. Taylor, Ltd., $1	260 33		
	Fuel, Water, Light, etc.:			
	Abbotsford Mining & Development Co., $18; Britannia Stores, $104; B.C.E.R. Co., Ltd., $57.33; B.C. Packers' Association, $15.90; Christie & Walton, $8; J. Clayton, $3.70; T. Cutler, $17; A. George, $24; C. Hodac, $31.50; Mission Water, Light & Power Co., Ltd., $33; W. E. Montgomery, $12; J. McTaggart & Son, $1.20; Nicklin-Disney Co., Ltd., $75.50; J. Orcutt, $72; P.G.E. Railway Co., $45.60; Powell River Co., Ltd., $27.85; Powell			
	Carried forward	$ 70,021 57	$303,455 97	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Vancouver District—Continued.			
	Brought forward	$ 70,021 57	$303,455 97	$ 455,389 42
	Expenses—*Continued.*			
	Fuel, Water, Light, etc.—*Continued.*			
	River Transfer Co., $68; Quathiaski Canning Co., $19.50; R. E. Roberts, $100; Robertson Bros., $6; R. Ross, $29; F. K. Takahashi, $30; F. Turcott, $16; Western Power Co. of Canada, Ltd., $29.55	844 63		
	Provisions:			
	J. Callendar, $11.60; J. G. Cunningham, $1.50; J. S. Grant, $12.20; E. M. Hadley, $59.60; E. Jones, $20.50; S. H. Lawrence, $34; S. Marshall, $6.80; M. Matthews, $46.90; T. E. Merrifield, $72; F. E. L. Philp, 35c.; J. Renner, $14; St. Julien Café, $11.50; Vancouver City Police Department, $61	351 95		
	Incidentals and Contingencies:			
	Annandale Supply Co., 50c.; F. S. Carruthers, $5; Cunningham Hardware Co., 55c.; G. F. Curtis, $5; Department of Health, Ottawa, $35; W. Eakin, $4; D. Elphinstone, $14; M. Fife, 75c.; W. S. Forsyth, $5; Gibbs Tool & Stamping Works, $5; Ireland & Allen, 50c.; E. Lipsett, $3.90; A. Matherson, $1.65; E. McArthur, $70; W. Owen, $32.40; Powell River Co., $1.50; W. F. Shaw, $5; Westminster Ice & Creamery, Ltd., $1; sundry persons (secret service), $450	640 75		
	Vancouver District		71,858 90	
	Vernon District.			
	Salaries ($11,003.19):			
	G. A. Carter ... $1,056 58	C. F. Oland .. $1,578 00		
	C. V. DeBeck .. 525 00	E. Patterson .. 1,065 00		
	E. C. Graham ... 1,584 00	J. Rankin ... 1,380 00		
	G. A. Johnson .. 150 16	J. M. Smith .. 1,428 00		
	A. King 843 50	W. Spiller ... 580 00		
	J. J. McConnell. 582 95		$ 10,773 19	
	Special Constables		230 00	
			$ 11,003 19	
	Expenses ($11,422.21):			
	Office Supplies, etc.:			
	C.P.R. Telegraphs, $25.67; Dominion Express Co., $19.50; Dominion Government Telegraphs, $6.51; Kettle Valley Railway Co., $3.90; Okanagan Telephone Co., Ltd., $534.75; R. Parmley, $1; postage, $180; E. Sparrow, 75c.; Underwood Typewriter Co., Ltd., $12; Wrigley Directories, $10	794 08		
	Travelling Expenses and Transportation:			
	A. L. Alpaugh, $4; G. A. Carter, $143.90; C. V. de Beck, $326.85; E. C. Graham, $953.20; G. A. Johnson, $39; A. King, $7.40; J. J. McConnell, $337.05; C. McMillan, $1.50; C. F. Oland, $591.35; E. Patterson, $58.25; J. Rankin, $1,163.40; J. M. Smith, $224.65; W. Spears, $1.50; W. Spiller, $469.30; P. A. Stewart, $1.50; H. Williams, $12			
	Purchase and Upkeep of Autos, etc.:			
	C. A. Butler, $2.20; Dominion Express Co., $3.15; Dominion Rubber System (Pacific), Ltd.,			
	Carried forward	$ 11,797 27	$375,314 87	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Vernon District—Continued.			
	Brought forward	$ 11,797 27	$375,314 87	$ 455,389 42
	Expenses—*Continued.*			
	Travelling Expenses and Transportation—*Continued.*			
	Purchase and Upkeep of Autos, etc.—*Continued.*			
	$42.83; Grand Forks Garage Co., Ltd., $32.75; C. Greer, $2; Greer & Butler, $58.45; H. J. Holman, $80.26; licences, $65.60; Megaw-Smithers Motor Co., $234.46; McMahon & Mack, $14.25; Neil, Cryderman & Kennedy, Ltd., $72; Okanagan Garage, $40.20; Page & Offord, $6.85; Penticton Department Store, $2.70; Penticton Electric Co., $2.60; Penticton Tire Hospital, $387.31; Princeton Garage, $21.70; G. A. Rands, $559.50; Sharp's Garage, $516.03; A. Smith & Son, $54.08; Triangle Motor Service, $35.28; Vernon Garage, $492.71; Ward Motor Co., $11; Watkin's Garage, $1,224.91	8,297 67		
	Furniture and Fixtures:			
	J. Bartholomew, $55.22; Campbell Bros., $22; C.P.R. Co., $3.92; Duncan Bros., $6.50; Kelowna Furniture Co., $21.50; Macey Office Equipment Co., Ltd., $176; C. E. Mohr, $1; Morrison-Thompson Hardware Co., $7	293 14		
	Uniforms, Clothing, and Equipment:			
	J. M. Edgar, $1.20; McMahon & Mack, $3.65; Penticton Electric Co., $3.35; Robison & Kelly, $1.75; Vernon Garage, $2.65; J. H. Watson, $1.25	13 85		
	Rents:			
	T. A. Norris, $50; Okanagan Telephone Co., Ltd., $210	260 00		
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	C.P.R. Co., $23.95; Corporation of Penticton, $10.40; J. M. Edgar, $1.20; Fulton Hardware Co., $4.60; J. Harwood, $117; C. Hong, $3; Kelowna Furniture Co., $6; Kelowna Steam Laundry, $4.90; T. Lawson Co., $1; W. R. Megaw, Ltd., $35.46; H. B. Morley & Co., $1.60; Morrison-Thompson Co., $9.60; Okanagan Electric, $12.96; Okanagan Hardware, $10.25; Penticton Department Store, $2; Penticton Electric Co., $14.70; Penticton Hardware Co., $9.50; Penticton Steam Laundry, $2.20; Quong Hoy, $2.50; W. Ryan, $12; S. P. Seymour, $68; S. M. Simpson, $4.75; T. Treadgold, $3.75; Vernon Hardware, Ltd., $57	418 32		
	Fuel, Water, Light, etc.:			
	Chapman Transfer Co., $24; City of Enderby, $12.15; W. Haug & Son, $65.22; City of Kelowna, $71.97; W. A. McCubbin, $18; McMahon & Mack, $3.25; J. McPherson, $75; Neil, Cryderman & Kennedy, $226.68; Okanagan Fruit Products Co., $72; Okanagan Hardware Co., $5.20; Okanagan Saw Mills, Ltd., $48.44; R. Parmley, $12; Corporation of Penticton, $36.27; W. J. Shields, $3.25; City of Vernon, $40.20; H. Welch, $36; F. A. Whitaker & Co., $16.80	766 43		
	Provisions:			
	A. M. Barnes, $7.60; W. C. Bray, $41.60; J. Cann, $13.60; J. Chow, $13.50; Coldstream Hotel, $43.60; City of Vernon, $206; E. C. Graham, $35; H. W. Main, $1; Okanagan Co-operative Associa-			
	Carried forward	$ 21,846 68	$375,314 87	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Vernon District—Continued.			
	Brought forward	$ 21,846 68	$375,314 87	$ 455,389 42
	Expenses—*Continued.*			
	Provisions—*Continued.*			
	tion, Ltd., $82.72; Penticton Hotel, $8.40; Royal Restaurant, $32; Vernon Meat Market, $14.40....	499 42		
	Incidentals and Contingencies:			
	R. E. Berry, $5.75; J. Cawston, $3; W. Cougar, $5; J. Crouger, $3; Dominion Express Co., 65c.; V. Fetterley, $6; J. Harwood, $28; Felix Joe, $3; Municipality of Penticton, $10; Penticton Hospital, $9; L. Stocks, $1.30; Summerland Drug Co., $1.60; Vernon Hardware Co., $3	79 30		
	Vernon District		22,425 40	
	Victoria District.			
	Salaries ($14,869.27):			
	C. E. L. Agassiz $ 620 00 / W. Kier $1,518 00			
	H. Bishop 1,518 00 / M. C. McPhail 1,153 24			
	A. Dunbar 805 00 / R. Owens 1,518 00			
	J. F. Fryer 460 00 / F. E. L. Philp 200 00			
	R. Gidley 1,518 00 / T. B. Rigby 345 16			
	W. H. Handley 115 00 / J. N. Rogers 1,332 00			
	E. B. Irving 1,143 37 / E. G. Steadham 660 00			
	G. H. Jennings 1,518 00 / W. J. Walker. 400 00	$ 14,823 77		
	Special Constables	45 50		
		$ 14,869 27		
	Expenses ($5,338.92):			
	Office Supplies, etc.:			
	B.C. Telephone Co., Ltd., $163.07; Dominion Express Co., 35c.; Dominion Government Telegraphs, $46.41; G.N.W. Telegraph Co., 74c.; postage, $61.50; Reliable Transfer Co., $5.10	277 17		
	Travelling Expenses and Transportation:			
	C. E. L. Agassiz, $33; H. Bishop, $243.29; A. Dunbar, $175.90; I. J. Ferris, $3; J. F. Fryer, $92.55; R. Gidley, $940.21; E. B. Irving, $633.99; W. Kier, $686.84; M. C. McPhail, $43.15; R. Owens, $212.85; F. E. L. Philp, $119.85; T. B. Rigby, $83.51; J. N. Rogers, $288.14; E. G. Stedham, $174.05; W. J. Walker, $22.66			
	Upkeep of Auto, Launches, etc.:			
	Armstrong Bros., $265.17; A. R. Bittancourt, $10; Cowichan Bay Launch & Motor Co., $43.45; H. E. Dendoff, $1.75; H. J. Holman, $76.25; Imperial Oil, Ltd., $48.15; Mouat Bros. & Co., Ltd., $320.34; W. McAfee, 50c.; Salt Spring Island Trading Co., $3.60; J. H. Smith, Ltd., $13.50; A. N. Taylor, $1.25	4,536 95		
	Furniture and Fixtures:			
	Smith & Champion	20 00		
	Uniforms, Clothing, and Equipment:			
	Cowichan Merchants, Ltd., 85c.; Dominion Express Co., $2.80; W. N. Lenfesty, $4.50; R. Mouat, $1.45; Oakalla Prison Farm, $20; Peden Bros., 10c.; Plimley & Ritchie, $3.35; J. H. Smith, Ltd., $5.60; D. Spencer, Ltd., 35c.	39 00		
	Rents:			
	A. R. Bittancourt	144 00		
	Carried forward	$ 19,886 39	$397,740 27	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Victoria District—Continued.			
	Brought forward	$ 19,886 39	$397,740 27	$ 455,389 42
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	Mouat Bros. & Co., Ltd.	2 50		
	Fuel, Water, Light, etc.:			
	A. R. Bittancourt, $58.50; B.C.E.R. Co., Ltd., $2.55; Ganges Water & Power Co., Ltd., $21; Mouat Bros. & Co., Ltd., $15.61; Sidney Mills, Ltd., $16	113 66		
	Provisions:			
	City of Victoria, $125.60; J. H. Smith, Ltd., $6.50; Vernon Café, $1.55	133 65		
	Incidentals and Contingencies:			
	E. Colpitts, 50c.; City of Victoria, $61.14; Dominion Express Co., 35c.; A. E. McMicking, $10	71 99		
	Victoria District		20,208 19	
	Yale District.			
	Salaries ($8,379.80):			
	P. C. Badman ..$1,644 00 D. A. Hazelton$1,398 00			
	R. W. Bowen... 1,668 00 W. Riley 294 80			
	W. Greenwood .. 1,398 00 A. Strang 1,332 00	$ 7,734 80		
	Special Constables	645 00		
		$ 8,379 80		
	Expenses ($4,198.95):			
	Office Supplies, etc.:			
	C.N. Railway Co., $2.10; C.P.R. Co., $5.95; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Express Co., $4.90; Dominion Government Telegraphs, $115.29; G.N.W. Railway Co., $2.57; postage, $129.50	261 56		
	Travelling Expenses and Transportation:			
	P. Badman, $1,238.20; R. W. Bowen, $340.40; F. A. Burr, $10; W. Greenwood, $286.10; D. A. Hazelton, $242.55; H. O. Nelson, $3.40; W. Riley, $295.05; A. Strang, $235.05; J. Williams, $26.05..	2,676 80		
	Uniforms, Clothing, and Equipment:			
	J. H. Anthony, $7.35; Armstrong Dept. Store, Ltd., $3.35; R. F. Barrett, $4.45; H. V. Cottrell, $1.40; M. Dumond, $3.60; Merritt Mercantile Co., $2.50; E. B. Richardson, $1.20; Sam Wah Laundry, $10.30	34 15		
	Rents:			
	C.P.R. Co.	1 00		
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	J. H. Anthony, $5; H. V. Cottrell, $3; M. Dumond, $39.20; R. E. Lodwick, $21; McIntosh & Baillie, $22.65: A. G. Rebagliati, $4.80; E. B. Richardson, $7; J. Taverna, $61.80; A. G. Vincent, $6.20	170 65		
	Fuel, Water, Light, etc.:			
	Ashcroft Water & Electric Co., $126.55; A. Barra, $55; C.P.R. Co., $13; H. V. Cottrell, $99; W. Crey, $10; M. E. Drewett, $1.50; F. Fritz, $48; P. W. Hickling, $20; A. Jackson, $5.50; J. R. Lyons, $99; Lytton Water Supply Co., $4.50; P. McCardy, $24; McIntosh & Baillie, $4.60; A. G. Rebagliati, $17; B. Rebagliati, $104.64; W. Scott, $30	662 29		
	Carried forward	$ 12,186 25	$417,948 46	$ 455,389 42

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
60.	PROVINCIAL POLICE—*Continued.*			
	POLICE DIVISIONS—*Continued.*			
	Yale District—Continued.			
	Brought forward	$ 12,186 25	$417,948 46	$ 455,389 42
	Expenses—*Continued.*			
	Provisions: P. Badman, $198.25; R. W. Bowen, $17.50; W. Greenwood, $97.50; D. A. Hazelton, $11; A. Strang, $36.50; E. R. Williams, $7.25	368 00		
	Incidentals and Contingencies: F. V. Agnew, $5; H. R. Fort, $2.50; J. J. Gillis, $15; Nicola Valley General Hospital, $2	24 50		
	Yale District		12,578 75	
	Sundry Police Offices.			
	Department of Printing & Stationery, Ottawa, $140; Electric Shop, $50.16; King's Printer, $4,153.69; Chief Constables Association of Canada, $100	$ 4,443 85		
	Sundry Police Offices		4,443 85	
	Total expenditure, Provincial Police			434,971 06
	COUNTY GAOLS.			
61.	NELSON.			
	Salaries ($6,783.64):			
	Warden ..... W. R. Jarvis	$ 1,800 00		
	Guards: C. V. Gagnon $1,500 00; A. A. Pitchford $1,500 00; G. Massey 1,500 00	4,500 00		
	Special Guards: T. Dolphin $ 77 91; J. H. L. Parker $176 12; W. A. Jones 190 32	444 35		
	Acting-Matron ..... M. A. Sturgeon	39 29		
		$ 6,783 64		
	Expenses ($3,827.25):			
	Office Supplies, etc.: B.C. Telephone Co., Ltd., $60.30; C.P.R. Telegraphs, $5.30; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Express Co., $8.35; G.N.W. Telegraph Co., 50c.; King's Printer, $85.87; postage, $34; Wrigley Directories, $10	205 57		
	Travelling Expenses and Transportation: Nelson Transfer Co.	6 50		
	Furniture and Fixtures: Wood-Vallance Hardware Co., Ltd.	6 95		
	Uniforms, Clothing, and Equipment: R. Andrew & Co., $4.75; Brown & Co., $64.50; Dominion Express Co., $4.60; Emory & Walley, $15; J. M. Ludwig, $41.50; Meagher & Co., $22.45; Oakalla Prison Farm, $302; Wood-Vallance Hardware Co., Ltd., $3.29	458 09		
	Maintenance and Repairs of Buildings, Grounds, etc.: Ashwell, Ltd., $10.15; J. T. Bealby, $9; B.C. Plumbing & Heating Co., $14; J. Burns & Son, $30.77; F. Darling & Co., Ltd., $4.04; Emory & Walley, $3.50; Howe Electric Co., $12.87; City of Nelson, $11.60; Nelson Hardware Co., $36.05;			
	Carried forward	$ 7,460 75		$ 890,360 48

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	COUNTY GAOLS—*Continued.*			
61.	NELSON—*Continued.*			
	Brought forward		$ 7,460 75	$ 890,360 48
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, Grounds, etc.—*Continued.*			
	Nelson Transfer Co., $4.50; M. Scally, $48.60; Standard Furniture Co., $7.50; Wood-Vallance Hardware Co., Ltd., $175.46		368 04	
	Fuel, Water, Light, etc.:			
	D. A. McFarland, $150; City of Nelson, $312.95; Wood-Vallance Hardware Co., Ltd., $2.62		465 57	
	Provisions, etc.:			
	P. Burns & Co., Ltd., $500.93; Choquette Bros., $897.51; Crescent Dairy, $29.20; Ellison Milling & Elevator Co., $4.75; J. A. Irving & Co., $16.70; M. Scally, $233.70		1,682 79	
	Incidentals and Contingencies:			
	News Publishing Co., Ltd., $6.80; Wood-Vallance Hardware Co., Ltd., $27.59		34 39	
	Medical Attendance and Hospital Supplies:			
	L. E. Borden, $450; Canada Drug & Book Co., Ltd., $10.50; Rutherford Drug Co., Ltd., $138.85		599 35	
	Total expenditure, Nelson Gaol			$ 10,610 89
62.	OAKALLA PRISON FARM.			
	Salaries ($34,496 76):			
	Warden ..... C. S. Campbell		$ 2,220 00	
	Gaolers:			
	J. C. Walmsley $1,256 61	C. C. Whebell $1,560 00	2,816 61	
	Guards:			
	A. W. Allard $1,260 00	J. T. Hardy $1,380 00		
	J. Armstrong 1,260 00	H. M. Harris 418 93		
	J. Barnes 1,320 00	G. Ingledew 10 67		
	C. A. Bolt 1,320 00	G. R. Long 1,380 00		
	M. Bonsor 1,117 50	J.H.C.Millman 1,316 45		
	A. H. Brett 425 00	J. Mitchell 293 39		
	W. Carter 1,200 00	A. McKercher 1,260 00		
	J. Delahunty 1,260 00	E. C. North 1,140 00		
	L. G. Dunbrack 1,236 29	R. Reid 1,200 00		
	J Eldridge 1,555 67	W. Rothwell 113 54		
	F. Elston 7 74	J. Urquhart 95 51		
	F. B. Emery 1,312 90	W. Walker 1,140 00		
	D. Ewart 512 29	J. T. Warne 877 50	24,413 38	
	Engineer ..... S. McKean		1,475 80	
	Tailor ..... J. A. Calder		1,215 97	
	Matron ..... E. E. Read		1,200 00	
	Assistant Matron ..... A. Woodward		1,080 00	
	Relieving Matron ..... I. J. Ferris		75 00	
			$ 34,496 76	
	Expenses ($40,466.77):			
	Office Supplies, etc.:			
	Bishop & Christie, 60c.; B.C. Telephone Co., Ltd., $216.65; C.N.R. Telegraphs, 40c.; C.P.R. Telegraphs, $6.89; Columbian Co., Ltd., $17.40; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $5.68; G. H. Hewitt & Co., Ltd., $1; King's Printer, $442.40; postage, $142; Vancouver Daily Province, $38.40; Vancouver Daily Sun, $33.60; Wrigley Directories, $10		917 52	
	Carried forward		$ 35,414 28	$ 10,610 89 $ 890,360 48

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	COUNTY GAOLS—*Continued.*			
62.	OAKALLA PRISON FARM—*Continued.*			
	Brought forward	$ 35,414 28	$ 10,610 89	$ 890,360 48
	Expenses—*Continued.*			
	Travelling Expenses and Transportation: B.C.E.R. Co., Ltd., $54.50; C.P.R. Co., $54.65; F. Elston, $3.50; I. J. Ferris, $5.60; G. Ingledew, $4.80; R. Reid, $98.35			
	Upkeep of Autos, etc.: Authorized Ford Service Station, $9.91; Can. General Electric Co., Ltd., $13.12; Collingwood Garage, $1; Consolidated Motor Co., Ltd., $52.10; Dominion Rubber System, Ltd., $39.69; Hayes-Anderson Motor Co., Ltd., $1.15; Imperial Oil, Ltd., $200.95; licences, $41.60; Ridley-Kennedy, Ltd., $1.30; Royal Oak Garage, $193.71; Standard Motors, Ltd., 75c.; Storey & Campbell, Ltd., $1.60; T. J. Trapp & Co., Ltd., $7.37; Wood, Vallance & Leggat, Ltd., $11.82 ..	797 47		
	Furniture and Fixtures: McClary Manufacturing Co.	15 78		
	Uniforms, Clothing, and Equipment: Birks, Ltd., $1; Brackman-Ker Milling Co., Ltd., $60; B.C. Barber Supply & Sundries, Ltd., $8.95; Clubb & Stewart, Ltd., $5.63; M. Fisher, Son & Co., $270.40; Gault Bros., Ltd., $2,864.15; G. Hewitt Co., Ltd., $2.25; E. B. Horsman & Son, $5.80; J. Leckie Co., Ltd., $326.54; McClary Manufacturing Co., $35.51; Singer Sewing Machine Co., Ltd., $37.96; Smith, Davidson & Wright, Ltd., $6.20; Storey & Campbell, Ltd., $547.74; Tower Canadian, Ltd., $270.36; Wood, Vallance & Leggat, Ltd., $45.88	4,488 37		
	Maintenance and Repairs of Buildings, Grounds, etc.: Alcock, Downing & Wright, Ltd., $32.40; American Express Co., $10.18; Anderson & Lusby, $265.21; H. Baillie & Co., $16.61; Bayfield & Archibald, $32.30; Brackman-Ker Milling Co., Ltd., $313; B.C. Brush Works, Ltd., $140.24; B.C.E.R. Co., Ltd., $20; Brown Bros., $1; C. S. Campbell, $20; Canadian Explosives, Ltd., $7.45; Canadian General Electric Co., Ltd., $10.34; C.P.R. Co., $41.79; Canadian Yale & Towne, Ltd., $54.31; Crane, Ltd., $15.36; Corporation of Burnaby, $2.50; F. Darling & Co., Ltd., $4.55; Dominion Express Co., $2.78; Drake Hardware Co., Ltd., $187.50; E. B. Eddy Co., Ltd., $41.68; Evans, Coleman & Evans, Ltd., $258.45; A. N. Fletcher, $39.10; J. A. Flett, Ltd., $1.50; Gilley Bros., Ltd., $838.95; W. Holt & Son, $44.18; Hudson's Bay Co., $432.52; Imperial Oil, Ltd., $24.44; Leek & Co., Ltd., $57.25; Massey-Harris Co., Ltd., $7.20; Mitchell Bros., 71c.; N. B. Mullen, $3; Murray Bros., 60c.; McClary Manufacturing Co., $164.82; McLennan, McFeely & Co., Ltd., $18.26; National Drug & Chemical Co. of Canada, Ltd., $2.05; W. N. O'Neil Co., Ltd., $113.75; J. Phillips & Co., $151.75; W. Rennie Co., Ltd., $61.55; Robertson-Godson Co., Ltd., $8.59; Ross & Howard Iron Works Co., Ltd., $49.94; Sabulite Explosives, Ltd., $183.89; Share Bros., 75c.; Sherwin-Williams Co., Ltd., $61.09; J. Fyfe Smith Co., Ltd., $15.75;			
	Carried forward	$ 40,715 90	$ 10,610 89	$ 890,360 48

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	COUNTY GAOLS—*Continued.*			
62.	OAKALLA PRISON FARM—*Continued.*			
	Brought forward	$ 40,715 90	$ 10,610 89	$ 890,360 48
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, Grounds, etc.—*Continued.*			
	Smith, Davidson & Wright, Ltd., $69.44; Stanley Rule & Level Co., $2.40; T. J. Trapp & Co., Ltd., $38.90; Trewhella Bros., Ltd., $64.22; United Grain Growers (B.C.), Ltd., $82.50; Vancouver Lumber Co., Ltd., $758.43; West Disinfecting Co., $130.05; Wood, Vallance & Leggat, Ltd., $340.71..	5,245 94		
	Fuel, Water, Light, etc.:			
	B.C.E.R. Co., Ltd., $932.23; Corporation of Burnaby, $738.75; Canadian General Electric Co., Ltd., $185.31; Gilley Bros., Ltd., $3,692.98	5,549 27		
	Provisions, etc.:			
	Agriculture, Department of, $1.50; Brackman-Ker Milling Co., Ltd., $5,229.85; P. Burns & Co., Ltd., $5,006.97; J. Coates, $142.04; Fleischmann Co., $335.45; T. R. R. Hoggan, $8; Hudson's Bay Co., $3,443.20; T. H. Jagger, $19; C. R. Long, $16.30; Maple Leaf Dairy Co., $660.40; M. Monk & Co., $1,111.29; L. H. Perkin, $51.65; J. Phillips & Co., $824.98; Provincial Mental Hospital, $12; W. Rennie Co., Ltd., $5.90; H. Ryall, $11.50; Shannon Bros., $25; Storey & Campbell, $48.27; Swift Canadian Co., Ltd., $261.23; T. J. Trapp & Co., Ltd., $1.26; United Grain Growers (B.C.), Ltd., $2,705.07; Vancouver Milling & Grain Co., Ltd., $1,966.23; Westminster Ice & Creamery, Ltd., $16; Wood, Vallance & Leggat, Ltd., $39.31	21,942 40		
	Incidentals and Contingencies:			
	C.P.R. Co., 90c.; A. E. Hill, $4; Hudson's Bay Co., $10.49; E. Johnstone, $7.50; T. J. Kearney & Co., $8; W. G. Morris, $18; Mount Pleasant Undertaking Co., $8; L. Reid, $28; D. Spencer, Ltd., $1.20	86 09		
	Medical Attendance and Hospital Supplies:			
	A. R. Baker, $11; D. S. Curtis & Co., $458.93; W. T. Hoyes, M.D., $900; National Drug & Chemical Co. of Canada, Ltd., $54	1,423 93		
	Total expenditure, Oakalla Prison Farm		74,963 53	
	Total expenditure, all County Gaols			85,574 42
	INDUSTRIAL SCHOOLS.			
63.	BOYS' SCHOOL.			
	Salaries ($13,040.04):			
	Superintendent .....D. B. Brankin	$ 1,500 00		
	Teachers:			
	F. E. Anfield ..$555 33 M. F. Pullen ..$693 33	1,248 66		
	Gardener .....A. Mogee	1,020 00		
	Tailor .....J. Henderson	1,200 00		
	Shoemakers:			
	J. W. Craigie ..$255 00 J. Jamieson ...$765 00	1,020 00		
	Bandmaster .....H. B. Collier	467 50		
	Manual Training and Band-master .....N. C. Ayling	605 00		
	Carried forward	$ 7,061 16		$ 975,934 90

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
	INDUSTRIAL SCHOOLS—*Continued.*		
63.	BOYS' SCHOOL—*Continued.*		
	Brought forward	$ 7,061 16	$ 975,934 90
	Salaries—*Continued.*		
	Cook .....H. Duff	1,005 00	
	Fourth Assistant .....T. Snodgrass	450 00	
	Engineer .....R. Hughes	900 00	
	Nightwatchman .....T. F. Calbick	960 00	
	Matron .....M. Brankin	500 00	
	Nurse and Stenographer ...A. Holland	780 00	
	Laundress .....A. E. Elmes	600 00	
	Poultry Instructors:		
	F. S.G. Hancock $340 00 J. A. Wilson $99 20	439 20	
	Guard .....W. McAteer	335 00	
	Bushman and Gardener .....B. C. Dinsmore	9 68	
		$ 13,040 04	
	Expenses ($27,354.42):		
	Office Supplies, etc.:		
	B.C. Telephone Co., Ltd., $97.87; Brooks-Corning Co., Ltd., $76; C.P.R. Telegraphs, $19.16; Clarke & Stuart Co., Ltd., $23.85; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $2.90; King's Printer, $163.01; postage, $62; Remington Typewriter Co., Ltd., $3.60; Vancouver Stationers, Ltd., $1; Vancouver World, $2.50; Western Specialty, Ltd., 75c.; Wrigley Directories, $10	465 14	
	Travelling Expenses and Transportation:		
	M. Brankin, $62.90; B.C.E.R. Co., Ltd., $41.90; C.P.R. Co., $20.05; Coldstream Hotel, $9; Terminal City Motor Co., $20		
	Purchase and Upkeep of Auto:		
	Dixon Motors, Ltd., $1,031.42; Duclos Bros., $38.50; licences, $35	1,258 77	
	Furniture and Fixtures:		
	Canadian Fairbanks-Morse Co., Ltd., $44.35; Cassidy's, Ltd., $40.75; Ford Delivery Express, $2; Gault Bros., $284.48; Hudson's Bay Co., $136; W. T. McArthur, $264.62; D. Spencer, Ltd., $64.10	836 30	
	Clothing, Boots, etc.:		
	F. W. Beaton, $2.11; B.C.E.R. Co., Ltd., $27.90; S. T. Cann, $3; Gault Bros., Ltd., $4,701.79; Singer Sewing Machine Co., $9.80; Storey & Campbell, $1,616.90	6,361 50	
	Maintenance and Repairs of Buildings, Grounds, etc.:		
	T. Alexander, $9; G. A. Allen, $82.55; H. G. Bamsey, $16.50; Barr & Anderson, $145; Birks & Sons, Ltd., 25c.; L. G. Couzens, 50c.; W. Denholm, $15; Dixon Motors, Ltd., $12.25; W. Duff, $20.50; Electric Supply & Contracting Co., Ltd., $7.22; Gault Bros., $197.18; Hastings Saw Mill, $8.63; Hudson's Bay Co., $356.24; C. H. Jones & Son, Ltd., $24.87; Light Electric Co., $46.50; Massey-Harris Co., Ltd., $12.55; W. T. McArthur & Co., Ltd., $907.42; S. McKendrick, $8; J. Phillips, $135.15; C. C. Pilkey, $9.75; W. Rathie, $244.10; Ritchie Bros., $297.66; Robertson & Hackett, $449.38; Rotary Auto Machine Co., Ltd., $1.31; Singer Sewing Machine Co., $3.95; Smith, Davidson & Wright, Ltd., $47.37; D. Spencer, Ltd., $60.75; Storey & Campbell, $12.35; West Disinfecting Co., $62.75	3,194 68	
	Carried forward	$ 25,156 43	$ 975,934 90

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
	INDUSTRIAL SCHOOLS—*Continued.*		
63.	BOYS' SCHOOL—*Continued.*		
	Brought forward	$ 25,156 43	$ 975,934 90
	Expenses—*Continued.*		
	Fuel, Water, Light, etc.: B.C.E.R. Co., Ltd., $235.38; Corporation of Point Grey, $318.64; Hinton Electric Co., 55c.; W. McArthur & Co., $12; Point Grey Wood & Coal Co., $978.75	1,545 32	
	Provisions, etc.: Bayview Market, $230.28; Brackman-Ker Milling Co., Ltd., $690.94; Dominion Market, $1,895.54; Hudson's Bay Co., $2,909.87; S. McKendrick, $29.65; J. Phillips, $806.19; Storey & Campbell, $3.43; Vancouver Milling & Grain Co., Ltd., $4,199.69	10,765 59	
	Incidentals and Contingencies: F. W. Beaton, $10.80; Electric Supply, 75c.; W. F. Evans, Ltd., $1,253.10; Evans & Hastings, $22; Ford Delivery Express, $6.50; L. C. Fraser, $67.64; E. J. Galloway, $1.35; General Fancy Goods, Ltd., $11.55; Hudson's Bay Co., $144.50; J. Johnston, $9; Muir Electric Co., $11.30; J. W. Pepper & Son, $4.14; G. Read, $42; Switzer Bros., $1; Townley & Ward, $2.30; F. W. Woolworth, 60c.; pay-lists (good-conduct money), $161.74	1,750 27	
	Medical Attendance and Hospital Supplies: R. H. Boyer, $21.25; A. W. Campbell, $87.60; I. McVicar, $15; S. Paulin, M.D., $1,035; W. J. Wrigglesworth, M.D., $18	1,176 85	
	Total expenditure, Boys' Industrial School		$ 40,394 46
64.	GIRLS' SCHOOL.		
	Salaries ($11,878.40):		
	Superintendent ..... M. W. Bayne	$ 1,500 00	
	Nurse and Matron ..... M. B. Menzies	882 50	
	First Assistant ..... M. Mitchell	720 00	
	Second Assistants: N. Bishop .....$121 93 E. L. Phillips ..$58 07 A. C. Oxley 719 33	899 33	
	Teachers: L. Alexander ... 249 68 J. A. G. Mill ..$80 00 M. A. Johnson.. 943 55	1,273 23	
	Needlewomen: M. B. Playfair..$212 00 B. Sample $720 00	932 00	
	Laundrywomen: M. H. Donald....$31 17 J. F. Ham ...$266 00	297 17	
	Cook ..... G. Grant	720 00	
	Engineer and Janitor ..... J. R. Clark	1,560 00	
	Gardeners: A. Dallen ....$1,166 67 T. Hoskins ..$1,377 50	2,544 17	
	Commercial Teacher ..... A. E. Sprott	550 00	
		$ 11,878 40	
	Expenses ($19,625.55):		
	Office Supplies, etc.: B.C.E.R. Co., Ltd., $19.90; B.C. Telephone Co., Ltd., $112.36; C.P.R. Telegraphs, $5.17; City Taxi, $3.50; Dominion of Canada Guarantee &		
	Carried forward	$ 11,878 40	$ 40,394 46 $ 975,934 90

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	INDUSTRIAL SCHOOLS—*Continued.*			
64.	GIRLS' SCHOOL—*Continued.*			
	Brought forward	$ 11,878 40	$ 40,394 46	$ 975,934 90
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	Accident Insurance Co., $2.50; Dominion Express Co., $12.72; Fraser Express Co., $1.50; G.N.W. Telegraph Co., 39c.; King's Printer, $397.70; W. R. McMurray, $1.56; Office Specialty Manufacturing Co., $86.80; postage, $45; Royal Transfer, Ltd., $4; D. Spencer, Ltd., 50c.; United Typewriter Co., $10.30; Vancouver Business Institute, $47.40; Vancouver Daily Province, $3.60; Western Specialty, Ltd., $3; Western Union Telegraph Co., 36c.; Western Woman's Weekly, $96; Wrigley Directories, Ltd., $10	864 26		
	Travelling Expenses and Transportation:			
	M. W. Bayne, $44.55; Blue Funnel Motor Line, $6; B.C.E.R. Co., Ltd., $113.40; City Taxi, Auto & Sightseeing Co., $17; Collin's Taxi, $19; Federal Truck Line, $1.25; W. Reelie, $1.50	202 70		
	Furniture and Fixtures:			
	Cassidy's, Ltd., $26.90; Cornish & Cooper, $2.50; Gault Bros., Ltd., $7.85; W. H. Grassie, $5; Hudson's Bay Co., $32.47; Lewis & Sills, $31.90; Miller & Co., Ltd., $88.93; Rankin & Cherrill, $15.15; J. R. Smith, $47.60; D. Spencer, Ltd., $115.82; W. C. Stearman, $3.50	377 62		
	Clothing, Boots, etc.:			
	W. Barton, $2.80; Gault Bros., Ltd., $993.09; Gordon Drysdale, $8.90; Grandview Shoe Store, $741.30; Hudson's Bay Co., $72.88; E. Lipsett, $1.32; J. McIntyre, $3.20; Singer Sewing Machine Co., $2.20; D. Spencer, Ltd., $341.94; A. I. Stoddart, $85.22; Wonder Millinery, $4	2,256 85		
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	C. A. Bolt, $20; J. Brand & Co., $199.95; B.C.E.R. Co., Ltd., $24.45; B.C. Hardwood Floor Co., $10.10; E. S. Brown, $26; W. A. Brown, $73.89; Brown Bros. & Co., Ltd., $57.75; Burns & Co., $171.50; Canadian Explosives, Ltd., $8.25; Champion & White, $11.65; City Chimney Sweeping Co., $19.50; Evans, Coleman & Evans, $72.50; F. C. Ford, $32.91; Graham Electric Co., $5.50; Grandview Metal Works, Ltd., $24.20; Hastings Saw Mill, $353.13; C. Hudgin, $361; Hudson's Bay Co., $35.30; W. Janes, $1.50; Johnston Storage Co., $140.61; W. D. Jones, $10.75; Knowlton's, Ltd., $23.80; Lewis & Sills, $600.63; M. Marsh, $22.50; W. T. McArthur & Co., $48.30; McClary Manufacturing Co., $13.30; J. McKane, $2; H. Nickerson, $22.58; Pearson Wire & Iron Works, $153.70; Rankin & Cherrill, $100.40; W. Rennie Co., Ltd., $1.50; Ritchie Bros. & Co., $47.75; Robertson-Godson Co., Ltd., $211.84; Robertson & Hackett Co., Ltd., $96.65; F. P. Rogers, $1,470; F. Scutt, $8.50; A. P. Slade, $14; J. Smith, $371; D. Spencer, Ltd., $112.55; W. C. Stearman, $52.85; G. Sutherland, $20; A. Tick & Co., $2.50; D. Turnvill, $8; J. F. Wallace, $160; W. Whalvin, $61.75; A. Wilson, $11.50; A. J. Woodward, $7.10	5,305 14		
	Carried forward	$ 20,884 97	$ 40,394 46	$ 975,934 90

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
	INDUSTRIAL SCHOOLS—*Continued.*			
64.	GIRLS' SCHOOL—*Continued.*			
	Brought forward	$ 20,884 97	$ 40,394 46	$ 975,934 90
	Expenses—*Continued.*			
	Fuel, Water, Light, etc.: Alberta Wood Yard, $27; B.C.E.R. Co., Ltd., $198.70; Dalyte Electric, Ltd., $44.55; Dunster & Boniface, $17; Evans, Coleman & Evans, $413.14; C. Hudgin, $30; Johnston Storage Co., $1,438.91; Vancouver City Waterworks, $42	2,211 30		
	Provisions, etc.: E. Alexander, $19; W. Alexander, $6.30; Almond's, Ltd., $3.50; Bayview Market, $856.74; Beaver Interurban Auto Transfer, $15; B. & K. Milling Co., Ltd., $148.71; E. M. Burnett, $13.70; East End Dairy, $843.46; Farrell's Messenger, $2.75; Federal Transfer, $2.50; Fleischmann Co., $24.18; F. E. C. Ford, $23; G. Garrnwood, $5; J. R. Harvey, $21.70; R. Holmes, $7.90; Hudson's Bay Co., $1,448.41; A. I. Johnson & Co., $24.55; Knowlton's, Ltd., 70c.; Lewis & Sills, $48.49; E. Masters, $5; A. D. Mathieson, $121.25; McMurray & Co., $3.25; Northwestern Messenger Service, $2.50; F. Olson, $11; J. Phillips & Co., $632; Reid Bros., $10.50; W. Rennie Co., $17.40; Ritchie Bros., $1.25; A. P. Slade & Co., $460.59; D. Spencer, Ltd., $770.68; Vancouver Milling & Grain Co., $1,390.46; S. R. Wilson, $3; A. J. Woodward, 75c.	6,945 22		
	Incidentals and Contingencies: Art Emporium, $2.25; Beaver-Interurban Auto Transfer, $30; N. G. Cull, $22; W. F. Evans, Ltd., $9.45; Evans & Hastings, $4; Granville Stationery, $2.60; M. Henri, 75c.; Mason & Risch, Ltd., $13.40; H. McKinney, $2; W. R. McMurray, $2.50; Owl Drug Co., $1; Parisian Costumers, $13.75; Phonograph Repair Co., $5.50; Rankin & Cherrill, $15; D. Spencer, Ltd., $1.75; W. G. Stearman, $1; N. Summerfield, $5; Tisdall's, Ltd., $1.40; Vancouver Daily Province, $3.30; Vancouver Daily Sun, $1.11; F. W. Woolworth Co., $4.60	142 36		
	Medical Attendance and Hospital Supplies: Dr. B. Anderson, $10; M. B. Campbell, $400; Chandler & Fisher, $145.42; J. A. Cockburn, $15; E. Cox, $10; N. G. Cull, $16.50; J. G. Farish, $12; W. Jaynes, $5.75; Knowlton's, Ltd., $299.73; I. C. Montgomery, $202; Mount Pleasant Undertaking Co., $6; W. C. McKechnie, $135; St. Paul's Hospital, $7; J. E. van Schmidt, $10.75; Vancouver General Hospital, $44.95	1,320 10		
	Total expenditure, Girls' Industrial School		31,503 95	
	Total expenditure, all Industrial Schools			71,898 41
	Carried forward			$1,047,833 31

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
	Brought forward		$1,047,833 31
65.	"INFANTS ACT" AND REFUGE HOMES.		
	Salaries ($3,575):		
	Superintendent of Neglected Children ..... D. B. Brankin (2 mos.)	$ 450 00	
	Assistant Superintendent of Neglected Children ..... G. F. Pyke (10 mos.)	2,250 00	
	Stenographer ..... E. N. Carr	875 00	
		$ 3,575 00	
	Expenses ($30,175.85):		
	Office Supplies, etc.: B.C. Clean Towel Supply, Ltd., $22.50; B.C. Telephone Co., Ltd., $67.28; Brooks-Corning Co., Ltd., $42.25; D. Burns, $712.50; C.P.R. Telegraphs, $9.94; Dominion Express Co., $5.70; Dominion Government Telegraphs, $1.25; King's Printer, $145.46; Messenger Service, 50c.; W. T. McArthur & Co., Ltd., 60c.; Office Specialty Manufacturing Co., Ltd., $169.18; postage, $50; United Typewriter Co., Ltd., $180; Western Specialty, Ltd., $3.15	1,410 31	
	Travelling Expenses: E. M. Bond, $18; D. B. Brankin, $495.25; E. N. Carr, $7.80; W. Greenwood, $18.95; M. Leek, $131.10; J. J. McConnell, $57.55; G. F. Pyke, $246.35; G.T.P.R. Co., $17.75	992 75	
	Grants and Contributions to Homes, Aid Societies, etc.: Alexandra Orphanage, $3,500; Catholic Children's Aid Society, $7,883.94; Monastery of Our Lady of Charity, $600; Protestant Children's Aid Home, $3,000; Protestant Children's Aid Society, $6,520.85; Providence Orphanage, $2,700; St. Anne's Boys' School, Quamichan, $800; St. Anne's Convent, Nanaimo, $700; Salvation Army Children's Home, $40; True Blue Orphanage, $2,000	27,744 79	
	Incidentals and Contingencies: A. Gordon, $8; Hopps Sign Co., $15; T. J. McPhee, $5	28 00	
	Total expenditure, "Infants Act" and Refuge Homes.....		33,750 85
66.	PUBLIC UTILITIES COMMISSION.		
	Salaries ($7,797.24):		
	Commissioner ..... J. L. Retallack	$ 625 00	
	„ ..... „ (gratuity)...	3,750 00	
	Secretary ..... S. J. R. Remnant	2,447 24	
	„ ..... „ (gratuity).	780 00	
	Clerk ..... W. R. Wellings	125 00	
	Stenographer ..... N. K. Sullivan	70 00	
		$ 7,797 24	
	Expenses ($322.53):		
	Office Supplies, etc.: B.C. Telephone Co., Ltd., 90c.; C.P.R. Telegraphs, $2.82; Lawyers Co-operative Publishing Co., $10; King's Printer, $20.79; postage, $20	54 51	
	Travelling Expenses: J. L. Retallack, $128.25; S. J. R. Remnant, $139.77	268 02	
	Total expenses, Public Utilities Commission		8,119 77
67.	SUMMONING AND PAYING WITNESSES.		
	Alberni, $1.90; Ashcroft, $40; Clinton, $124.35; Cranbrook, $496.70; Cumberland, $33.50; Duncan, $14.85; Fernie, $641.95; Fort George, $2,833.45; Golden, $91.23; Grand Forks, $11.50; Kamloops, $688.30; Merritt, $295.45; Nanaimo, $869.90; Nelson, $305.50; New Westminster, $569.35; 150-Mile House, $109.75;		
	Carried forward		$1,089,703 93

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
67.	SUMMONING AND PAYING WITNESSES—*Continued.*		
	Brought forward		$1,089,703 93
	Prince Rupert, $1,257; Princeton, $73.65; Quesnel, $173; Revelstoke, $98.50; Smithers, $113.35; Vancouver, $10,524.85; Vernon, $152.95; Victoria, $956.44	$ 20,477 42	
	Total expenditure, Summoning and paying Witnesses		20,477 42
68.	GRAND AND PETIT JURORS (INCLUDING DRAWING PANELS, ETC.)		
	Fernie, $467.50; Fort George, $2,947.60; Kamloops, $1,014.65; Nanaimo, $393; Nelson, $257.75; New Westminster, $2,093.80; Prince Rupert, $715.90; Revelstoke, $143; Vancouver, $6,288.20; Vernon, $20; Victoria, $1,511.50	$ 15,852 90	
	Total expenditure, Grand and Petit Jurors		15,852 90
69.	PROSECUTIONS AND INTERPRETERS.		
	Ashcroft:		
	L. Chow, $2; Sing Lee, $2	$ 4 00	
	Atlin:		
	H. Taku	5 00	
	Cranbrook:		
	Macdonald & Nisbet, $30; W. A. Nisbet, $470	500 00	
	Cumberland:		
	P. P. Harrison	10 00	
	Duncan:		
	T. James	2 00	
	Fernie:		
	F. Abdullah, $4; S. H. Bodie, $5.80; L. Carosella, $8; J. Kaila, $8; Lawe & Fisher, $85; D. Macko, $4; D. M. Mitchell, $480; A. MacNeil, $150; J. F. Rudnicki, $8; G. Tupila, $24.20; Yee Wing, $3	780 00	
	Fort George:		
	T. Andrews, $3; Earle & Sutherland, $1,030.50; E. V. Finland, $35; J. M. McLean, $25; W. P. Ogilvie, $55; P. E. Wilson, $25; A. McB. Young, $403.44; Young & Ogston, $95	1,671 94	
	Golden:		
	W. I. Briggs	293 70	
	Grand Forks:		
	W. Clayton	108 40	
	Greenwood:		
	W. Clayton	76 80	
	Kamloops:		
	Black & Dunbar, $350; P. Frazy, $2; C. Lee, $4	356 00	
	Merritt:		
	Grimmett & Parker, $41; N. K. Maitland, $32.50; G. Tootlakin, $12; J. Williams, $5	90 50	
	Nanaimo:		
	Dong Wing, $27.40; H. Koyama, $3; A. Leighton, $582; G. J. Shoju, $13.20	625 60	
	Nelson:		
	Donaghy, Brown & Dawson, $189.31; P. Kennedy, $2; O'Shea & Farris, $185; P. Rawlings, $2.50; L. M. Sung, $80	458 81	
	New Westminster:		
	A. H. Burton, $15.60; Harbant Singh, $4.35; T. Sing Kee, $4; R. C. Marhull, $7.35; N. Messere, $6; Munsha Singh, $14.35; K. C. MacGowan, $769.44; P. L. Okamura, $12; A. W. Petapiece, $806.47	1,639 56	
	150-Mile House:		
	Frank (Indian)	8 00	
	Carried forward	$ 6,630 31	$1,126,024 25

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
69.	PROSECUTIONS AND INTERPRETERS—*Continued.*		
	Brought forward	$ 6,630 31	$1,126,024 25
	Prince Rupert: V. Basso-Bart, $7; W. Beynon, $3.50; W. E. Fisher, $1,368.28; Fisher & Oughton, $30; I. Fougner, $2; G. Kelly, $7; Lee Loo, $2; J. Nikunen, $4; C. S. Obata, $2; W. H. Pierce, $4; Rajah Singh, $9; Santok Singh, $7	1,445 78	
	Princeton: Gideon Eneas, $2; C. S. Lyons, $127.70	129 70	
	Quesnel: H. Lintgreen, $6; A. Windt, $12	18 00	
	Revelstoke: W. I. Briggs, $5; A. D. Macintyre, $146.50	151 50	
	Rossland: D. Macdonald	30 60	
	Smithers: Chow Tong, $2.50; Dipout, $2.50; W. Holland, $2; Lee Tong, $5; J. A. Sampare, $2.50; A. Shanoss, $2.50; C. Sterrit, $10; E. J. Wade, $2; C. J. Wing, $2.50	31 50	
	Vancouver: B.C. Telephone Co., Ltd., 15c.; C. I. Cameron, $90.70; Congdon, Campbell & Meredith, $50; D. Downie, $325; D. Elphinstone, $309; Fleishman and Sugarman, $52; J. A. Haviland, $1,063.60; Harnan Singh, $4; A. Henderson, $1,885; I. Hosay, $4; T. James, $4; H. Kargaeff, $24; R. C. Marhull, $6; G. L. MacInnes, $15; F. Peters, $32; E. Peterson, $16; V. Protich, $117; J. A. Russell, $1,250; J. Sable, $23; G. Shoju, $56; L. M. Sung, $31; R. M. Tada, $7; H. S. Wood, $4,422.75; M. Yamada, $48	9,835 20	
	Vernon: Cochrane, Ladner & Reinhard	353 85	
	Victoria: J. S. Brandon, $1,315.50; Hall & O'Halloran, $60; H. Hastings, $85; A. Leighton, $169.50; T. O'Connell, $2.50	1,632 50	
	Total expenditures, Prosecutions and Interpreters		20,258 94
70.	EXPENSES OF INQUESTS.		
	Abbotsford: A. L. McQuarrie	$ 17 50	
	Alert Bay: B.C. Packers' Association, $37.05; S. Cook, $5; W. M. Halliday, $196.35; R. Matthews, $25; L. Tame, $75; G. H. Wilson, $4	342 40	
	Anyox: L. Broe	8 00	
	Arrow Park: E. H. S. McLean	15 00	
	Ashcroft: S. E. Beech, $29.50; F. Webb, $99.90	129 40	
	Barkerville: M. Callanan, $4; H. J Gardner, $32.50	36 50	
	Campbell River: J. S. Carruthers, $8; H. L. Furniss, $20; S. Marshall, $99; W. F. Shaw, $347	474 00	
	Clinton: G. Milburn	26 50	
	Coal Creek: W. Workman	14 00	
	Courtenay: T. L. Butters, $87.95; H. P. Millard, $23	110 95	
	Cranbrook: G. E. L. Mackinnon	40 00	
	Creston: G. B. Henderson	30 00	
	Carried forward	$ 1,244 25	$1,146,293 19

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
70.	EXPENSES OF INQUESTS—*Continued.*		
	Brought forward	$ 1,244 25	$1,146,293 19
	Cumberland:		
	A. Cronck, $12; E. R. Hicks, $4; G. K. MacNaughton, $43	59 00	
	Duncan:		
	Duncan Garage, Ltd., $4; W. Dykes, $4; M. S. Inglis, $10; W. Kier, $6; J. S. Macpherson, $4; H. F. D. Stephens, $87	115 00	
	Enderby:		
	H. W. Keith	40 00	
	Fernie:		
	B. Asselstine, $31; S. Bonnell, $8; L. Carosella, $3; R. Duthie, $151.40; E. L. Garner, $30; F. W. Greene, $12.70; McLean Drug & Book Store, $5; A. D. Perry, $102.40; F. G. Perry, $127.90; F. O. Rosling, $13.40; G. B. Thomson, $40; Pay-lists (witness fees), $65.70	590 50	
	Field:		
	G. A. Cheeseman, $4; P. Ewert, $28.75	32 75	
	Ganges:		
	J. T. Collins, $19.50; P. Georgeson, $5; E. M. Sutherland, $19..	43 50	
	Golden:		
	G. Cheeseman, $18.65; P. Ewert, $43; J. N. Taylor, $10	71 65	
	Grand Forks:		
	S. T. Hull, $10.80; C. M. Kingston, $42	52 80	
	Greenwood:		
	J. M. Burnett, $4; W. Lakeland, $15.75	19 75	
	Hazelton:		
	S. H. Hopkins, $10.65; H. C. Wrinch, $27	37 65	
	Hedley:		
	P. Laurencetto, $3; D. McCaffrey, $41.50; M. D. McEwen, $14; G. Riddle, $3; S. Smith, $3; A. Winkler, $10	74 50	
	Hope:		
	L. A. Agassiz, $43.85; W. Gardner, $2	45 85	
	Kamloops:		
	M. G. Archibald, $84.70; C. Bacon, $4; L. G. Bell, $10; R. Bowden, $8.80; H. L. Burris, $8; J. S. Burris, $20; D. Carson, $12; G. Dale, $2.75; M. Hoover, $7; L. G. Houle, $14; R. W. Irving, $14; R. King, $4; J. Lackinby, $14; F. E. Pettman, $15; C. Rose, $12; P. Slavin, $4.10; B. Smith, $26.25; W. Wright, $10; pay-lists, $21; Provincial Board of Health, $20..	311 60	
	Kaslo:		
	G. C. Read	20 00	
	Kelowna:		
	G. L. Campbell, $19; W. J. Knox, $4; L. A. Hayman, $16; E. Weddell, $15	54 00	
	Ladysmith:		
	P. Battie, $1.75; C. G. Callin, $2.80; B. Mazzeline, $4.05; J. E. Montgomery, $4	12 60	
	Lytton:		
	H. R. Fort	**4 00**	
	Merritt:		
	J. J. Gillis, $65; G. H. Tuthill, $30	95 00	
	Michel:		
	A. C. Murray, $25.25; F. G. Perry, $21.10	46 35	
	Mission City:		
	A. J. Stuart	56 00	
	McBride:		
	S. Petersky	4 50	
	Nakusp:		
	E. H. S. McLean	10 00	
	Nanaimo:		
	Carr's Garage, $3; C. Davidson, $4; H. Hickling, $202.50; O. G. Ingham, $8; E. Kelsey, $62.90; W. R. Lane, $4; J. E. Montgomery, $7.20; W. H. McIntyre, $4; T. J. McPhee, $15; pay-list, $11	321 60	
	Carried forward	$ 3,362 28	$1,146,293 19

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
70.	EXPENSES OF INQUESTS—*Continued.*		
	Brought forward	$ 3,362 28	$1,146,293 19
	Natal:		
	H. Hughes, $8.65; A. C. Murray, $80.65	89 30	
	New Denver:		
	W. E. Gomm	10 00	
	New Westminster:		
	W. G. Morris, $4; E. H. McEwan, $20; D. F. Saunders, $3.50	27 50	
	North Vancouver:		
	H. Dyer, $10; T. E. P. Gocher, $15	25 00	
	Ocean Falls:		
	J. Christie, $10; Forest Branch (launch-hire, etc.), $39.50; A. M. Tyson, $4.20	53 70	
	Port Alberni:		
	J. J. Burke, $15; L. A. Hanna, $128.75; A. Hansen, $5; H. Hill, $3; J. Hill, $5; L. C. Hill, $50; C. T. Hilton, $15; W. F. Le Huray, $5; A. D. Morgan, $10; J. E. McCoy, $2; N. Nelson, $5; E. Rice, $5; G. Shead, $7.50; D. Taylor, $5; R. Taylor, $5; L. H. Vaughan, $2; D. Watson, $5	273 25	
	Port Clements:		
	A. R. Mallory	5 00	
	Powell River:		
	A. Henderson, $65; C. R. Marlatt, $70	135 00	
	Prince George:		
	C. Ewart, $15; H. Guest, $15; E. J. Lyon, $15; N. Pedersen, $16.20	61 20	
	Prince Rupert:		
	B.C. Undertakers, $10; J. P. Cade, $3; J. Conway, $7.95; R. Gibson, $3.50; A. Kingston, $10; G. Johnston, $10; R. G. Lawrence, $4; J. M. Smith, $35; pay-list, $10	93 45	
	Princeton:		
	L. LaValley, $8; D. McCaffrey, $123.65; L. Smith, $48; R. B. White, $23	202 65	
	Quatsino:		
	B. W. Leeson, $26; O. O. Lyons, $30	56 00	
	Queen Charlotte City:		
	G. D. Beattie	289 02	
	Quesnel:		
	Johnston Bros.	2 00	
	Revelstoke:		
	W. I. Briggs, $35; J. H. Hamilton, $52.80	87 80	
	Rock Bay:		
	E. H. Gray	4 00	
	Rossland:		
	J. W. Coffin	13 85	
	Salmon Arm:		
	A. K. Connolly	63 60	
	Skidegate:		
	W. J. Leary	10 00	
	Smithers:		
	T. Allin, $7; A. Eastment, $7; C. H. Hankinson, $11; S. H. Hoskins, $53; T. Humphreys, $3.50	81 50	
	South Francois Lake:		
	A. A. Gray	21 50	
	Summerland:		
	F. W. Andrews	5 00	
	Swanson Bay:		
	R. G. Lawrence	10 00	
	Trail:		
	W. A. Coghlin, $4; H. L. Lamb, $5; J. Nay, $20; W. Sullivan, $8; J. B. Thom, $28	65 00	
	Carried forward	$ 5,048 17	$1,146,293 19

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
70.	EXPENSES OF INQUESTS—*Continued.*		
	Brought forward	$ 5,408 17	$1,146,293 19
	Vancouver:		
	A. H. Bain, $12.75; G. E. Balsdon, $30.20; M. S. Bryan, $19.20; G. F. Curtis, $63; P. Desmond, $2.80; J. L. Grigg, $2.80; W. R. Hill, $7.90; W. F. Islip, $12.70; T. W. Jeffs, $150; T. Laffin, $2.80; J. Leine, $24; V. Luoma, $24; I. A. Mackenzie, $155; T. Murray, $30.20; T. O'Brien, $30.20; D. F. Saunders, $24.70; W. R. Vance, $12.75; F. A. E. Walker, $2.80	607 80	
	Vanderhoof:		
	W. R. Stone	165 40	
	Victoria:		
	E. C. Hart, $115; C. P. Higgins, $4; M. Peterson, $3.50; M. Raynor, $15; F. T. Stanier, $35	172 50	
	Vernon:		
	W. Arbuckle, $5; S. G. Baldwin, $30; Campbell Bros., $10; Megaw-Smithers Motor Co., $16; O. Morris, $42	103 00	
	Yahk:		
	H. Christie	5 00	
	Total expenditure, Expenses of Inquests		6,101 87
71.	REWARDS.		
	Re Dan Urick and Peter Lazuk:		
	H. H. Brockman, $50; M. J. Wegener, $150	$ 200 00	
	Re Orval Ogle:		
	H. P. Kerr	200 00	
	Total expenditure, Rewards		400 00
72.	CONSTITUTIONAL LITIGATION AND GENERAL LAW COSTS.		
	O. C. Bass, $5,500; Black & Dunbar, $17; J. S. Brandon, $50; F. Bunting, $32; Courtney & Elliott, $52.05; Craig & Parkes, $2,186.54; Davis & Co., $50; Donaghy, Brown & Dawson, $40; Ellis & Brown, $175.15; E. C. Findley, $3.90; W. E. Fisher, $45; H. G. Garrett, $619.50; P. Grant, $50; Grimmett & Parker, $22.70; Gurd & Spreull, $75; Hall & O'Halloran, $35.60; C. L. Harrison, $125; J. A. Haviland, $305.50; F. B. Hill, $83.75; Killam & Beck, $329.85; King's Printer, $30.60; law stamps, $31; A. Leighton, $320.10; G. H. Manchester, $25; W. Merston, $15; D. M. Mitchell, $74.65; J. Murphy, $14.25; D. MacDonald, $50; K. C. MacGowan, $311.10; G. L. MacInnes, $70.80; A. MacNeil, $119.15; F. A. McDiarmid, $750; J. M. McLean, $20; McQuarrie, Martin, Cassady & MacGowan, $250; A. Ogston, $214.65; O'Shea & Farris, $52.30; J. M. Pearson, $4; A. W. Petapiece, $25; J. A. Ritchie, $509.40; M. Unwin, $38; White & Leonard, $405.79; H. S. Wood, $1,078.52; Yarwood & Harrison, $55.35; Young & Ogston, $50; pay-lists *re* H. V. Lyon, $48	$ 14,361 20	
	Total expenditure, Constitutional Litigation and General Law Costs..		14,361 20
73.	MOTOR-TRAFFIC REGULATION (PLATES, BADGES, ETC.).		
	Albion Motor Express, $18.50; F. Anderson, 25c.; Bogardus, Wickens, Ltd., $2.05; B.C. Anchor Fence Co., Ltd., $78; B.C. Telephone Co., Ltd., $2.48; R. A. Burgoyne, $95.50; Canadian Express Co., $2.20; C.P.R. Co., $6.51; R. R. Carver, $13.50; Central Canada Express Co., $1.50; Clendon Tool & Stamping Works, $510; Dominion of Canada Guarantee & Accident Insurance Co., 62c.: Dominion Express Co., $182.22; Drake Hardware Co., Ltd., $1.10; Hafer Machine Co., Ltd., $140; J. J. Horne, 50c.; Inland Express Co., $5; King's Printer, $3,059.94; postage, $145; P.G.E. Railway Co.,		
	Carried forward		$1,167,156 26

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*

73. MOTOR-TRAFFIC REGULATION (PLATES, BADGES, ETC.)—*Continued.*

Brought forward $1,167,156 26

$1.15; Reliable Messenger & Delivery Co., 50c.; Reliable Transfer Co., 75c.; J. R. Tacey & Son, $19,771.37; United Typewriter Co., Ltd., $337.50 ..... $ 24,376 14

Total expenditure, Motor-traffic Regulation 24,376 14

74. GAME PROTECTION.

Destruction of Wolves, Cougars, Coyotes, Owls, etc., and Game Protection, including Salaries, Travelling Expenses, Incidentals of Office, Publicity, and Contingencies:

Bounties paid at various Government Agencies ..... $ 6,405 49

Salaries ($10,748.21):

M. K. L. Anderson	$ 97 50	F. R. Butler	$1,313 00
C. C. Carey	15 00	E. G. Cowper	70 00
A. P. Cummins	1,320 00	W. A. Curran	75 00
J. A. Evans	619 66	J. W. French	160 00
W. E. Hawkes	91 00	J. A. Hird	1,264 52
R. E. Hose	2,100 00	A. D. Kean	1,200 00
G. Lang	11 25	S. W. Long	1,320 00
G. MacPenrose	171 00	W. R. McCullough	80 64
M. C. McPhail	100 00	D. R. Ramage	39 00
M. E. Richards	30 00	L. Tennis	96 00
W. J. Walker	200 00	H. L. Walsh	14 00
D. C. Weston	80 64	E. Wood	280 00

10,748 21

Expenses ($27,623.15):

Travelling Expenses:

A. R. Baker, $1,880.01; T. R. Baker, $74.20; T. B. Booth, $34.70; B.C.E.R. Co., $85.25; F. R. Butler, $33.30; J. G. Cunningham, $4.75; F. A. Dunn, $204.10; J. A. Hird, $689.78; R. E. Hose, $421.39; A. D. Kean, $4.50; W. R. McCullough, $3.30; D. C. Weston, $2.55; W. E. Williams, $209.75; Pattison Motors, Ltd. (Lexington motor-car), $3,420 ..... $ 7,067 58

Sundry Expenses:

American News Co., Ltd., $3.54; Baker & Co., $11.14; J. Ball, $75; Bell's Art Store, $7.60; P. Bergenham, $150; Board of Trade Buildings, $75; T. Brazil, $180; Brackman-Ker Milling Co., Ltd., $311.50; B.C.E.R. Co., Ltd., $54.91; B.C. Telephone Co., Ltd., $239.52; Brown Garage, Ltd., $18.75; G. Browne, $47; F. R. Butler, $1.80; Camera & Arts, Ltd., $2.20; Cameron Lumber Co., Ltd., $165.66; Campbell's Storage Co., Ltd., $55.15; Canadian Express Co., $2.55; W. L. Campion, $40; Canadian General Electric Co., Ltd., $11.92; Canadian National Express Co., $8.35; C.P.R. Co., $221.75; E. J. Cashmore, $1.50; H. Chaster, $3; City Bargain Store, 60c.; City Transfer, 25c.; A. W. Clarke, $5.75; Clarke & Stuart, $11.25; Colquitz Grocery, $1,820.12; Cory & Power, $191.33; A. P. Cummins, $350.15; A. Curby, $9.25; V. M. Dafoe, $1,628; Dixon & Murray, $8; Dominion Express Co., $111.14; Dominion Government Telegraph Co., $7.72; Dominion of Canada Guarantee & Accident Insurance Co., $2.90; J. Easkine, $65; Electrical Maintenance Co., $2.25; A. B. Elliott, $7.50; W. J. Ellison, $21; Empress Theatre, $50; G. Fisher, $229.01; Ford Delivery Co., $9.50; E. Forfar, $189.55; W. S. Fraser & Co., $279.83; Fraser's,

Carried forward ..... $ 7,067 58 $ 17,153 70 $1,191,532 40

No. of Vote.	SERVICE.	Expended.		
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
74.	GAME PROTECTION—*Continued.*			
	Brought forward	$ 7,067 58	$ 17,153 70	$1,191,532 40
	Destruction of Wolves, Cougars, Coyotes, Owls, etc., and Game Protection, including Salaries, Travelling Expenses, Incidentals of Office, Publicity, and Contingencies—*Continued.*			
	Expenses—*Continued.*			
	Sundry Expenses—*Continued.*			
	Ltd., 50c.; J. W. French, $68.81; Game Conservation Society, $2.75; Gibbs Tool & Stamping Works, $400.73; R. Gidley, $34.09; W. B. Goldie, $72.25; Goodyear Tire & Rubber Co., Ltd., $33.37; Graham Electric Co., $10.45; Graham-Hirst Co., $10; G.T.P. Coast Steamship Co., Ltd., $1.60; H. E. Grant, 75c.; G.N.W. Telegraph Co., 72c.; Haskins & Elliott, 80c.; A. Haut, 60c.; W. E. Hawkes, $217; G. H. Hewitt Co., Ltd., $112.47; Hickman-Tye Hardware Co., Ltd., $7.60; A. J. Hilds, $30; E. L. Hillis, $12; R. Hoffmeister, $14.80; Hudson's Bay Co., $30.35; Imperial Transfer Co., $3.50; Independent Van & Storage Co., Ltd., $54.37; Ireland & Allan, 65c.; Jenkins Co., Ltd., $4; H. Johnson, $15; O. Johnson, $15; C. H. Jones & Son, $5.75; E. Jones, $84.25; A. D. Kean, $827; King's Printer, $1,786.90; G. A. Kirk, $250; Lands Department, $20.64; J. Leigh & Sons, $273.88; Lemon-Gonnason Co., Ltd., $1,241.70; Lindquist Bros., $11; S. W. Long, $382.90; P. J. Mackay, $37.20; Mackay & Gillespie, Ltd., $81; Mainland Transfer Co., $5.81; Marlatt & Mackenzie, $3.30; D. Maxwell, $75; Mellor Bros., Ltd., $2.55; Mouat Bros. & Co., Ltd., $10.25; G. MacPenrose, $19.88; McDowell & Mann, $4.90; R. M. McIntosh, $7.25; M. C. McPhail, $5.50; Office Specialty Manufacturing Co., Ltd., $129.60; Pacific Garage, $45.41; P.G.E. Railway Co., $1; Pascoe & Co., $5; F. L. Peters Garage, $122.50; postage, $275.74; E. G. Prior & Co., $117.47; Public Works Department, $32; J. Rankin, $14.10; Rapid Transfer Co., $1.50; C. Reece, $12; Reliable Baggage & Furniture Co., $4; Reliable Transfer Co., $106; Remington Typewriter Co., Ltd., $125.55; E. J. Renwick, $81.10; Robertson & Hackett Sash and Door Co., Ltd., $51.20; Saanich Waterworks Co., $17; R. S. Sargent, Ltd., $1.80; A. E. Scaife, $30; Scott & Peden, $792.10; W. A. Sharpe, $1; A. Sheret, $131.65; Simson, Balkwill & Co., Ltd., $2,022.66; F. M. Slater, $7.50; J. Stark, $9.75; W. C. Stearman, $4.21; E. G. Stedham, $3; G. Stephens, $7; R. M. Stewart, $21.36; Storey & Campbell, $21.75; Sylvester Feed Co., $25.50; I. Thompson, $10; G. R. Thompson, $500; Tisdall's, Ltd., $1.55; T. J. Trapp & Co., $1.30; A. Tubb, $10; Underwood Typewriter Co., $1.25; Union Steamship Co., Ltd., $2.90; United Typewriter Co., Ltd., $8; J. F. C. B. Vance, $10; Vancouver Ice & Cold Storage Co., Ltd., $2.75; Vancouver Milling & Grain Co., Ltd., $12.65; Vancouver Stationers, Ltd., 90c.; L. B. Vandecar, $420; Vernon Hardware Co., Ltd., $2.10; W. Walker &			
	Carried forward	$ 7,067 58	$ 17,153 70	$1,191,532 40

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
74.	GAME PROTECTION—*Continued.*			
	Brought forward	$ 7,067 58	$ 17,153 70	$1,191,532 40
	Destruction of Wolves, Cougars, Coyotes, Owls, etc., and Game Protection, including Salaries, Travelling Expenses, Incidentals of Office, Publicity, and Contingencies—*Continued.*			
	Expenses—*Continued.*			
	Sundry Expenses—*Continued.*			
	Son, $173.76; S. J. Watson, 35c.; S. C. Weston, $21; C. J. White, $14.35; Wrigley Directories, Ltd., $10; R. D. Young, $225; pay-list, labour *re* pheasant pens, $1,928.50	20,555 57		
			27,623 15	
	Total expenditure, Game Protection			44,776 85
75.	SPECIAL SURVEYS.			
	Ashcroft Journal, $6.75; H. A. Cornwall, $1,888.75; J. T. Laidlaw, $227.95; Registrar of Titles, Kamloops, $16		$ 2,139 45	
	Total expenditure, Special Surveys			2,139 45
76.	STIPENDIARY MAGISTRATES.			
	Cumberland ..... J. Baird		$ 300 00	
	Nelson ..... J. A. Forin		499 92	
	New Westminster ..... J. S. Clute		250 00	
	Ocean Falls ..... A. H. Mogridge		263 40	
	Ocean Falls ..... A. M. Tyson		36 60	
	Vancouver ..... H. O. Alexander		500 00	
	Victoria ..... G. Jay		500 00	
	Total expenditure, Stipendiary Magistrates			2,349 92
77.	INCIDENTALS AND CONTINGENCIES.			
	F. Allbutt, $114; C. G. Baker, $15; Bank of Commerce, $1.75; C. Bowman, $15; M. S. Bryan, $1,157.15; F. Bunting, $76.90; E. M. Bustin, $110.65; C.P.R. Co., $4.59; Carswell Co., Ltd., $6.85; City Transfer & Cartage Co., $8; B. Clark, $7; J. Conway, $9.25; J. T. Copeman, $50; D. Corless, $25; E. G. Cowper, $60; G. F. Curtis, $5; A. Dallas, $54.50; S. B. Dark, $8.40; Department of Printing (Ottawa), $1.20; Dominion Express Co., 75c.; A. Ellis, $495.81; Forest Branch (P.R.), $17.50; E. Graham, $5; G.W.V.A. Year Book, $125; A. Hallam, $67.80; T. W. Herne, $15.75; W. R. Hill, $90; S. H. Hoskins, $33.70; H. Hunter, $37.70; W. E. G. Johnson, $30; A. M. Jones, $5; E. Kelsay, $11; W. D. Kennedy, $5; King's Printer, $1,357.88; J. Leask, $26; Lynch Bros. & McMeekin, $13.90; Macey Office Equipment Co., $343; P. J. MacKay, $151.95; J. F. Madore, $4; A. R. Mallory, $51; A. J. B. Mellish, $50; Montebello Hotel, $21; A. W. Morris, $165; A. E. MacEachern, $18.05; H. G. MacGill, $12.35; T. McGladrey, $5; J. G. McKay, $100; E. M. McPhee, $22.50; Oakalla Prison Farm, $32.66; Pacific Mills, Ltd., $3; B. Palmer, $5; F. G. Perry, $771.90; A. W. Petapiece, $165; Prince George City, $39; J. Quoy, $6; I. M. Radford, $14.40; L. D. Rengger, $8.85; T. S. Ruffell, $3.30; G. E. Sanborn, $8.30; D. F. Saunders, $261.05; W. Schad, $1.50; J. Sheddon, 75c.; G. C. Sinclair, $3.50; A. Taylor, $14; W. Telfer, $6.70; C. W. Tyler, $175.75; M. Unwin, $35.60; Victoria Corporation, $862.20; A. H. Watson, $28.40; T. T. Weyenberg, $10; H. F. Wilmot, $25.95		$ 7,494 69	
	Total expenditure, Incidentals and Contingencies			7,494 69
	Carried forward			$1,248,293 31

No. of Vote.	SERVICE.	Expended.
	DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*	
	Brought forward	$1,248,293 31
78.	PROMOTION OF UNIFORMITY OF PROVINCIAL LEGISLATION IN CANADA.	
	Baker, Voorhis & Co., $5; Collector of Customs, 56c.; H. E. A. Courtney, $379.20; J. N. Ellis, $314; F. Ford, $200; King's Printer, $16.95	$ 915 71
	Total expenditure, Uniformity of Provincial Legislation	915 71
	STATUTORY EXPENDITURES.	
	"Moving Pictures Act Amendment Act, 1920," Sec. 2.	
	Salaries ($7,519.82):	
	A. R. Baker $3,380 00	
	T. R. Baker 186 00	
	H. E. Bullen 957 98	
	F. J. Elkins 500 00	
	B. Finch 69 00	
	C. N. Gowen $ 331 03	
	D. R. Ramage 18 00	
	J. Robinson 545 83	
	J. Wade 406 98	
	M. G. Watkis 1,125 00	
		$ 7,519 82
	Expenses ($23,190):	
	Travelling Expenses:	
	T. R. Baker, $112.70; A. D. Kean, $335.52; M. G. Watkis, $74.48	522 70
	Miscellaneous:	
	American Railway Express, $113.95; E. L. Armstrong, $108; Barnhart Bros. & Spindler, $175.65; C. C. Berger, $104.50; Bogardus Wickens, Ltd., $6.98; B.C.E.R. Co., Ltd., $4.75; B.C. Government Liquor Vendor, $18.75; B.C. Telephone Co., Ltd., $19.09; B.C. Theatre Supplies, Ltd., $32.85; J. Brown, $90; Canadian Film Exchange, $4.85; Canadian National Express Co., $1; Canadian Photo Co., $4.50; C.P.R. Telegraphs, $62.15; N. E. W. Cartney, $10.50; H. P. Clark, $2.25; Colonial Theatre, $20; Columbia Theatre, $250; Continental Marble Co., Ltd., $3.85; J. N. Copp Co., Ltd., $250; C. K. Courtney, $100; Crane, Ltd., $12.51; Dominion Express Co., $86.55; Dominion Government Telegraphs, 94c.; G. W. Edwards, $3,102.86; Edwards Bros., $2,395; Elec. Supply & Contracting Co., Ltd., $50.86; Empire Transfer Co., $2.25; Evans & Hastings, $4.04; A. E. Freeman, $250; G. H. Hewitt Co., Ltd., $32.24; Johnson & Reeve, $10; F. Jones, $39.10; A. D. Kean, $6,108.56; J. A. Kershaw, $730.96; King's Printer, $205.99; M. Lee, $100; H. C. L. Lindsay, $135; Mackinley Film Co., Ltd., $490.95; J. T. Mandy, $250; W. H. Myers, $5; W. T. McArthur & Co., Ltd., $13.08; H. McAlpin, $12.15; National Drug & Chemical Co., $24; A. H. Nesbitt, $60.22; W. N. O'Neil Co., Ltd., $8.10; P.G.E. Railway Co., $100.35; Pathescope Co. of Canada, Ltd., $5,344.70; C. Pedden, $4.20; R. G. Pollock, $3; postage, $56; Rankin & Cherrill, $60; Rapid Transfer Co., 50c.; Reliable Transfer Co., $3; Robertson & Hackett Sawmills, Ltd., $24.01; Royal Victoria Theatre, $300; Seymour Auto Stand, $55; Simson, Balkwill & Co., Ltd., $1.90; Specialty Film Import Co., $611.50; D. Spencer, Ltd., $23.86; Standard Tire & Rubber Co., $49.45; W. C. Stearman, 95c.; Stewart Photo Supply Co., $33.05; Temple-Pattison Co., Ltd., $1.50; W. Tenney, $17.50; M. H. Thoreau, $267; Times P. & P. Co., Ltd., $16.80; Tisdall's, Ltd., $1.50; United Typewriter Co., $153; Vancouver Transfer Co., $11; Western Specialty, Ltd., $1.55; M. A. Wylde, $12 ..	22,667 30
	Total expenditure, "Moving Pictures Act Amendment Act, 1920" ..	30,709 82
	"Revenue Act," R.S.B.C. 1911, Sec. 53.	
	Sundry refunds	55 00
	Carried forward	$1,279,973 84

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*

STATUTORY EXPENDITURES—*Continued.*

Brought forward $1,279,973 84

"Nelson and Fort Sheppard Railway Lands Definition Act, 1918."

King's Printer, $17; Nelson Daily News, $95.04 ..... 112 04

"Sandon Receivership Cancellation Act, 1919."

W. E. Wasson, services *re* municipal election, 1919 ..... 114 00

"Mothers' Pensions Act, 1920."

Salaries ($5,565.46):

Investigators:					
A. Campbell	$ 789 68	L. M. Nelson	$104 52		
J. S. Drummond	768 39	F. Ridsdale	600 00		
E. A. Franklin	1,132 26	J. Taylor-Hanna	211 45		
A. Mabon	612 10			$ 4,218 40	
Stenographers:					
J. Brand	$ 67 50	A. Clague	$567 20		
B. C. Campbell	565 00	M. McRae	60 00		
N. M. Carr	15 00	E. Reid	72 36	1,347 06	
				$ 5,565 46	

Expenses ($278,889.53):

Travelling Expenses:

D. B. Brankin, $149.64; B.C.E.R. Co. (car tickets), $119.10; M. E. Cameron, $3.30; J. S. Drummond, $43.50; E. A. Franklin, $490.65; A. R. Johnstone, $51.55; A. Mabon, $20.15; H. McLaren, $12; G. F. Pyke, $1,011.22; F. Ridsdale, $283.60; J. Russell, $5.05; J. C. Taylor-Hanna, $3.05 ..... 2,192 81

Office Supplies, etc.:

A1 Auto Service, $9; P. Anderson, $25; B.C. Clean Towel Supply, Ltd., $9; B.C. Telephone Co., Ltd., $57.97; Brooks-Corning Co., Ltd., $60; M. Z. Brown, $8.50; D. Burns, $285; Burroughs Adding Machine Co., $426.30; C.P.R. Co., $66.93; E. J. Chambers, $6; Clarke & Stuart Co., Ltd., $40.05; Dominion Express Co., $41.75; Dominion Government Telegraphs, 60c.; Electric Supply & Contracting Co., Ltd., $44.91; G. H. Hewitt Co., Ltd., $4.04; Houghton & Evans, $7.14; King's Printer, $808.63; Norris Safe & Lock Co., Ltd., $225; Office Specialty Manufacturing Co., Ltd., $184.25; postage, $203.70; G. F. Pyke, $1.65; H. Shepherd, $7.50; Typewriter Service Co., $22.50; J. D. Tompkins, $10.40; United Typewriter Co., Ltd., $156; Vancouver Citizens Club, $8.30; Vancouver Map & Blue Print Co., $11.10; Vancouver World, $2.50; Western Specialty, Ltd., $6.50; Western Women's Weekly, $382 ..... 3,122 22

Monthly pensions 273,574 50

Total expenditure, "Mothers' Pensions Act, 1920" 284,454 99

Total expenditure, Department of the Attorney-General $1,564,654 87

DEPARTMENT OF EDUCATION.

79. GENERAL OFFICE.

Salaries ($15,993.65):

Superintendent of Education	S. J. Willis			$ 4,000 00	
Assistant Supt. of Education	J. D. Gillis			3,480 00	
Chief Clerk	G. Cruikshank			2,400 00	
Clerks:					
G. E. Cruickshank	$1,152 00	K. Greig	$1,080 00	2,232 00	
Stenographers:					
M. L. Lucas	$662 60	L. G. Watson	$1,080 00		
L. Mellor	840 00			2,582 60	
Carried forward				$ 14,694 60	

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF EDUCATION—*Continued.*		
79.	GENERAL OFFICE—*Continued.*		
	Brought forward	$ 14,694 60	
	Salaries—*Continued.*		
	Temporary Assistance:		
	H. F. Hinder .....$13 75 G. Perks $21.25		
	M. M. MacLeod 35 00	70 00	
	Registrar .....J. A. Anderson	1,229 05	
		$ 15,993 65	
	Expenses ($8,368.71):		
	Office Supplies, etc.:		
	American Book Co., $3.11; E. Arnold, $2.47; Baker & Taylor Co., $27.54; British Canadian, $43.20; B.C. Telephone Co., $199.25; Bruce Publishing Co., $6.80; Burroughs Adding Machine, Ltd., $189.34; C.P.R. Telegraph Co., $512.47; Colonist P. & P. Co., Ltd., $226.50; J. M. Dent & Sons, Ltd., $3.60; Dominion of Canada Guarantee & Insurance Co., $22.50; Dominion Express Co., $7.75; Dominion Government Telegraphs, $37.82; G. H. Doran Co., $9.90; Educational Publishing Co., $2; G.N.W. Telegraph Co., $148.83; E. S. Harris, 50c.; Henderson Directory Co., $8; T. N. Hibben & Co., $2.70; King's Printer, $5,337.55; O. J. B. Lane & Son, $3; Lemon-Gonnason Co., Ltd., $24.59; Macey-Abell Co., Ltd., $124; Macmillan Co. (Can.), $12.87; National Council Y.M.C.A., $8.60; T. Nelson & Sons, $10; Palmer Co., $4.20; postage, $1,001.72; Public Works Department, $14.50; Science Press, $5.50; Times P. & P. Co., $1.10; United Typewriter Co., $110.50; Vancouver Province, $3.65; Victoria Book & Stationery Co., Ltd., $65.50; Waites & Knapton, 35c.; World, Ltd., 75c.; Wrigley Directories, Ltd., $10	8,192 66	
	Travelling Expenses:		
	J. D. Gillis, $91.25; S. J. Willis, $84.80	176 05	
	Total expenditure, General Office		$ 24,362 36
80.	FREE TEXT-BOOK BRANCH.		
	Salaries ($6,035.74):		
	Officer in Charge .....J. L. Watson	$ 2,100 00	
	Clerk .....B. G. Walker	1,500 00	
	Stenographers:		
	D. A. Bryant .....$960 00 E. M. Monteith $435 50		
	F. Hamilton 433 55	1,829 05	
	Temporary Assistance:		
	H. G. Bevan-Pritchard.$13 00 T. H. Hodgson $108 75		
	I. J. Burrell ..... 5 00 C. Richards 80 00		
	E. A. Fortin ..... 11 25 C. H. Robinson 76 25		
	W. C. Freeman ..... 8 75 F. Smedley 132 44		
	J. Givens ..... 32 50 H. J. Stork 10 00		
	F. B. Hobson ..... 50 00 G. Streeter 78 75	606 69	
		$ 6,035 74	
	Expenses ($80,348.64):		
	Office Supplies, etc.:		
	Acme Steel Goods Co., $66.10; B.C. Telephone Co., $85.56; C.P.R. Telegraph Co., $2.20; Drake Hardware Co., Ltd., 75c.; Express Traffic Association, 50c.; W. S. Fraser & Co., $9.14; G.N.W. Telegraph Co., $8.17; E. S. Harris, 50c.; King's Printer, $2,405.43; postage, $951.80; Smith, Davidson & Wright, $1.80; Victoria Book & Stationery Co., $51.05; Wrigley Directories, Ltd., $10	3,593 00	
	Text-books, Maps, Globes, etc.:		
	Canadian Express Co., $131; C.N.R. Co., $2,273.68; C.P.R. Co., $967.22; Copp-Clark Co., $6,414.37; G. H. Cottrell, Ltd., $9.75; Dominion		
	Carried forward	$ 9,628 74	$ 24,362 36

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF EDUCATION—*Continued.*		
80.	FREE TEXT-BOOK BRANCH—*Continued.*		
	Brought forward	$ 9,628 74	$ 24,362 36
	Expenses—*Continued.*		
	Text-books, Maps, Globes, etc.—*Continued.*		
	Express Co., $1,043.67; E. & N. Railway Co., $1,878.25; W. S. Fraser & Co., $8.33; W. J. Gage & Co., $58.921.06; G. M. Hendry Co., Ltd., $160; King's Printer, $263.35; Lemon-Gonnason Co., $56.25; Litchfield's, Ltd., $23.90; postage, $106.06; E. W. Reid, $2,495.43; Reliable Transfer Co., $270.85; Ship Chandlers, Ltd., $1,641.25; Smith, Davidson & Wright, Ltd., $33.06; Victoria Book & Stationery Co., $44.59; J. L. Watson (sundry accounts), $53.12	$ 76,795 19	
	By cash	39 55	
		76,755 64	
	Total expenditure, Free Text-book Branch		86,384 38
81.	AGRICULTURAL EDUCATION.		
	Salaries ($23,548.95):		
	Director of Agricultural Education, J. W. Gibson	$ 3,420 00	
	District Supervisors:		
	J. E. Britton .....$2,220 00 A. M. McDermott ..$1,815.55		
	W. M. Fleming .... 1,900 00 J. C. Readey 2,320 00		
	H. E. Hallwright .. 2,120 00 V. B. Robinson 1,266 70		
	S. H. Hopkins ..... 2,120 00 J. M. Shales 2,020 00		
	J. B. Munro ..... 1,266 70 E. L. Small 2,220 00	19,268 95	
	Clerks and Stenographers:		
	T. Evans .....$280 00 F. C. Poole $580 00	860 00	
		$ 23,548 95	
	Expenses ($17,859.42):		
	Office Supplies, etc.:		
	American Forestry Association, $3.60; B.C. Telephone Co., Ltd., $6.65; C.P.R. Telegraph Co., $29.37; Dominion Express Co., $9.96; Dominion Government Telegraphs, 73c.; Ecological Society of America, $3.35; Farm & Home, $2; E. Fleming, $9; W. S. Fraser & Co., Ltd., $4.36; G.N.W. Telegraph Co., $14.60; King's Printer, $460.63; Lemon-Gonnason Co., Ltd., $4.28; A. H. Maynard, $6; J. H. McFarland Co., $48.91; National Geographic Society, $5.67; postage, $145.66; Public Works Department, $90.70; Renouf Publishing Co., $5.45; Times P. & P. Co., Ltd., $94.88; United Typewriter Co., Ltd., $8.10; Victoria Book & Stationery Co., Ltd., $37.70; Waites & Knapton, $1.90	993 50	
	Travelling Expenses:		
	J. E. Britton, $181.94; W. M. Fleming, $12.15; J. W. Gibson, $861.60; S. H. Hopkins, $25.05; J. B. Munro, $229.73; A. M. McDermott, $217.98; J. C. Readey, $474.02; V. B. Robinson, $211.30; J. M. Shales, $22.10; E. L. Small, $27.75	2,263 62	
	Grants in aid of agricultural education	8,025 35	
	Summer School:		
	W. A. Aldritt, $172; A. Anstey, $48; C. H. Bennett, $15; B.C. Assay & Chemical Supply Co., Ltd., $2.10; B.C. Telephone Co., Ltd., $7.20; J. E. Britton, $303.25; J. Cameron, $107.65; D. E. Campbell, $4.80; A. Crompton, $2.80; Dominion Express Co., $16.93; Drake Hardware Co., Ltd., $1.50; E. Fleming, $7; W. M. Fleming, $119; J. W. Gibson, $20; G. W. Hale, $30; H. E. Hallwright, $200; A. Hendry, $2; S. H. Hopkins, $129.75; O. J. Kern, $226.45; King's Printer,		
	Carried forward	$ 34,831 42	$ 110,746 74

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF EDUCATION—*Continued.*			
81.	AGRICULTURAL EDUCATION—*Continued.*			
	Brought forward		$ 34,831 42	$ 110,746 74
	Expenses—*Continued.*			
	Summer School—*Continued.*			
	$87.50; Lemon-Gonnason Co., Ltd., $3.12; Macey-Abell Co., Ltd., $3.80; A. H. Maynard, $9.35; R. H. MacKenzie, $200; H. B. MacLean, $306.20; P. A. MacLean, $119.60; A. M. McDermott, $328.20; J. M. McGee, $3.75; National Drug & Chemical Co. of Canada, Ltd., $12.48; Overland Teaming Stables, $12; W. Packenham, $22.75; F. C. Poole, $15; J. C. Readey, $279; Reliable Transfer Co., $10; G. B. Rigg, $312.60; J. C. Robson, $35.80; W. J. Savory, $23; J. M. Shales, $174.35; S. Silcox, $750; Suttie Bros., $67.55; M. N. Tame, $14.85; Topley Co., $4; R. C. Treherne, $234.05; Victoria School Board, $90.30; City of Victoria, $243.47; G. P. Vont, $5; C. H. Vrooman, $12; A. Ward, $119; A. & W. Wilson, $4.25; J. W. Young, $17.95	$ 4,936 35		
	Allowance to students on account of travelling expenses	1,640 60		
			6,576 95	
			$ 41,408 37	
	Less special grant from Dominion Government		26,200 90	
	Total expenditure, Agricultural Education			15,207 47
82.	INDUSTRIAL EDUCATION.			
	Salaries ($6,210):			
	Organizer of Industrial and Technical Education ..... J. Kyle		$ 3,120 00	
	Officer in Charge of Correspondence Course ..... J. Hargreaves		2,220 00	
	Clerk and Stenographer ..... M. E. Eastman		870 00	
			$ 6,210 00	
	Expenses ($62,736.21):			
	Office Supplies, etc.:			
	B.C. Telephone Co., $4.15; Canadian Express Co., $1.30; C.P.R. Telegraph Co., $26.14; Dominion Express Co., $1.85; H. Fleming, $57.75; G.N.W. Telegraph Co., $14.59; E. S. Harris, 50c.; T. N. Hibben & Co., $3.25; King's Printer, $802.12; Macey-Abell Co., Ltd., $1.30; postage, $182.96; A. E. Price, 35c.; Reliable Transfer Co., 50c.; Times P. & P. Co., Ltd., $2.50; United Typewriter Co., Ltd., $20.75; Victoria Book & Stationery Co., $13.30		1,133 31	
	Travelling Expenses:			
	J. Hargreaves, $95.25; J. Kyle, $1,165.79		1,261 04	
	Night-schools:			
	Grants in Aid:			
	Anyox, $1,706; Bevan, $272.80; Chilliwack, $404.40; Coal Creek, $128; Colwood, $16; Duncan, $208; Fernie, $68; Happy Valley, $19.20; Merritt, $48; Michel, $275.20; Mission, $70.40; Nanaimo, $785.20; New Westminster, $345.60; North Vancouver, $1,294.42; Revelstoke, $160; Saanich, $454.80; South Vancouver, $1,677.60; Thrums, $92.80; Vancouver, $4,176.80; Victoria, $2,394.80		14,598 02	
	Carried forward		$ 23,202 37	$ 125,954 21

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF EDUCATION—*Continued.*			
82.	INDUSTRIAL EDUCATION—*Continued.*			
	Brought forward		$ 23,202 37	$ 125,954 21
	Expenses—*Continued.*			
	Summer Schools:			
	Instructors:			
	W. H. Binns $215 00	E. Copeland $210 39		
	E. M. Coney 307 10	A. H. Hamilton 299 00		
	J. W. Eastham 90 00	E. W. Hamilton-Smith 215 00		
	A. S. Hamilton 33 50	A. Macfarlane 344 85		
	H. A. Jones 385 00	J. G. Sinclair 336 80		
	C. H. Scott 184 50	F. T. C. Wickett 130 25		
	W. P. Weston 131 75			
	A. Carter 297 70		$ 3,180 84	
	Miscellaneous:			
	Acme Press, Ltd., $300; M. H. Barry, $4.70; B.C. Hardware Co., Ltd., $2.65; Brown's Victoria Nurseries, $4.75; D. Cameron, $24.25; J. Chalmers, $107.65; Colonist P. & P. Co., Ltd., $14.90; J. Curwen & Sons, Ltd., $11.08; A. H. Davies, $34.50; M. Devereaux, $15; Dominion Express Co., $1.10; Evans Bros., Ltd., $21.82; E. Fleming, $7; W. J. Gage & Co., Ltd., $14.14; J. K. Gill & Co., $37.81; Heintzman & Co., Ltd., $17.85; T. N. Hibben & Co., $24.80; S. Hunter, $24; King's Printer, $116; H. O. Kirkham & Co., Ltd., $59.34; J. Kyle, $15; N. MacDonald, $90; J. A. McCahill, $31.50; J. McLeod, $107.65; A. N. Palmer Co., $21.29; E. G. Prior & Co., Ltd., $115.77; Provincial Royal Jubilee Hospital, $1.50; Reliable Transfer Co., $5; Smith, Davidson & Wright, $50.01; Staneland Co., Ltd., $12.50; Times P. & P. Co., $2.45; Victoria Book & Stationery Co., Ltd., $109; Victoria City Dairy, $3.15; Victoria School Board, $131.14; travelling expenses of students, $2,108.86		3,648 16	
				6,829 00
	Grants in aid of industrial, commercial, and household science education			23,481 12
	Grant in Aid of Technical School, Vancouver:			
	Angell Engraving Co., $14.66; Canadian Photo Co., 75c.; City of Vancouver, $14,647.81; J. G. Green, $550; Vancouver Sun, $220.50			15,433 72
	Total expenditure, Industrial Education			68,946 21
83.	INSPECTION OF SCHOOLS.			
	Salaries ($42,623.85):			
	Inspectors of High Schools:			
	J. B. DeLong $2,940 00	A. Sullivan $3,120 00	$ 6,060 00	
	Inspectors of Schools:			
	A. Anstey $2,640 00	A. F. Matthews $2,460 00		
	L. J. Bruce 2,640 00	W. H. M. May 2,820 00		
	F. G. Calvert 2,520 00	A. E. Miller 2,880 00		
	E. G. Daniels 1,385 15	J. M. Paterson 2,400 00		
	G. H. Gower 2,640 00	T. J. Pollock 2,820 00		
	A. R. Lord 2,580 00	A. C. Stewart 1,567 40		
	H. H. Mackenzie 2,760 00	W. N. Winsby 1,031 30		
	J. Martin 2,640 00		35,783 85	
	Stenographer	L. W. McLeod	780 00	
	Carried forward		$ 42,623 85	$ 194,900 42

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF EDUCATION—*Continued.*			
83.	INSPECTION OF SCHOOLS—*Continued.*			
	Brought forward		$ 42,623 85	$ 194,900 42
	Expenses ($20,465.58):			
	Office Supplies, etc.:			
	A. Anstey, $130.18; B.C. Saddlery Co., Ltd., $28.60; B.C. Telephone Co., Ltd., $14.67; L. J. Bruce, $74.58; F. G. Calvert, $84.23; E. G. Daniels, $36.45; J. B. DeLong, $76.76; G. H. Gower, $86.75; King's Printer, $423.85; A. R. Lord, $119.64; J. Martin, $50.64; A. F. Matthews, $77.99; W. H. M. May, $33.90; A. E. Miller, $118.32; H. H. Mackenzie, $79.96; J. M. Paterson, $86.35; J. T. Pollock, $39.35; A. Simpson, $50; A. C. Stewart, $30.40; A. Sullivan, $38.35; Weiler Bros., Ltd., $110.65; W. N. Winsby, $19.75		1,811 37	
	Travelling Expenses:			
	A. Anstey, $1,014.30; L. J. Bruce, $675.13; F. G. Calvert, $1,235.37; E. G. Daniels, $777.90; J. B. DeLong, $1,298.84; G. H. Gower, $2,242.05; A. R. Lord, $1,843.71; J. Martin, $417.97; A. F. Matthews, $1,814.05; W. H. M. May, $537.69; A. E. Miller, $1,239.75; H. H. Mackenzie, $938.60; J. M. Paterson, $1,450.85; J. T. Pollock, $178.90; A. C. Stewart, $756.75; A. Sullivan, $608.80; W. N. Winsby, $353.45; M. A. Alsgard (Chevrolet motor-car), $1,270.10		18,654 21	
	Total expenditure, Inspection of Schools			63,089 43
	NORMAL SCHOOLS.			
84.	VANCOUVER.			
	Salaries ($26,311.45):			
	Principal	W. Burns (5 mos.)	$ 1,425 00	
	Principal	D. M. Robinson (7 mos.)	1,925 00	
	Assistant Masters:			
	A. E. C. Martin $1,400 00	D. M. Robinson		
	E. H. Murphy 3,120 00	(5 mos.)	1,266 60	
	J. A. MacIntosh 2,520 00	W. P. Weston 2,700 00		
	H. B. MacLean 2,760 00		13,766 60	
	Assistant Mistress	L. A. Burpee	2,040 00	
	Music Mistresses:			
	E. M. Coney $939 35	I. Morris $735 50	1,674 85	
	Librarians and Stenographers:			
	A. M. Loree $320 00	L. G. Rankine $600 00	920 00	
	Engineer and Janitor	J. Bowyer	1,170 00	
	Assistant Janitor	D. Robbins	1,110 00	
	Gardener	H. Cocroft	1,170 00	
	Assistant Gardener	J. E. Howlett	1,110 00	
			$ 26,311 45	
	Expenses ($10,315.49):			
	Office Supplies, etc.:			
	Agassiz Association, $1.50; American Penman, $1; B.C. Telephone Co., Ltd., $73.34; B.C. Window Cleaning Co., $40; Burns Drug Co., $312.50; Cascade Steam Laundry Co., Ltd., $16.55; City Chimney Sweeping Co., $28.50; Clarke & Stuart Co., Ltd., $806.46; G. S. Forsyth & Co., $21.65; Funk & Wagnalls, $9.45; Ginn & Co., $2.73; J. G. Gunn, $144.40; G. H. Hewitt & Co., Ltd., $5; Ireland & Allen, $48.95; King's Printer, $87.60; C. Langton, $6; E. Lipsett, $1.68; Moran's Drug Stores, $5; A. C. McClurg & Co., $52.32; J. H. McFarland Co., $45.40; National Geographic Society, $4; Nature-study Review, $1.10; T. Nelson & Sons, $19.56; Pacific Transfer Co., $9; Popular Educator			
	Carried forward		$ 26,311 45	$ 257,989 85

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF EDUCATION—*Continued.*			
	NORMAL SCHOOLS—*Continued.*			
84.	VANCOUVER—*Continued.*			
	Brought forward		$ 26,311 45	$ 257,989 85
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.* Co., $2.40; Primary Education Co., $2.25; postage, $13.54; Public Health Journal, $2; F. Raemaekers & Stephen Bros., $4.80; W. Rennie Co., Ltd., $28.85; D. M. Robinson (sundry accounts), $83.85; School Arts Magazine, $2.25; Smith, Davidson & Wright, Ltd., $59.20; D. Spencer, Ltd., $46.70; United Publishers of Canada, Ltd., $19; Vancouver Daily Sun, $8.50; Ward-Ellwood, Ltd., $75.15		2,092 18	
	Travelling Expenses: W. Burns, $8.55; H. B. MacLean, $6.60; D. M. Robinson, $20.80		35 95	
	Fuel, Water, and Light: B.C.E.R. Co., Ltd., $305.93; Johnston Storage Co., Ltd., $1,823.67; King's Printer, $3; Vancouver City Water Works, $67.20; Vancouver Daily Sun, $25.50; Vancouver Gas Co., $43.55; Vancouver Woodyard, $21.25		2,290 10	
	Maintenance and Repairs of Buildings, Grounds, etc.: Arco Co., $175; F. A. A. Barrs, $50; Brackman-Ker Milling Co., Ltd., $4.95; B.C.E.R. Co., Ltd., $1.05; Canadian Box Co., $83.96; W. A. Fraser, $7.90; J. G. Gunn, $30.78; Johnson Temperature Regulating Co., Ltd., $237; C. H. Jones & Son, Ltd., $254.52; Mainland Transfer Co., Ltd., $28.12; W. T. McArthur & Co., Ltd., $9; McLennan, McFeely & Co., Ltd., $8.40; Ritchie Bros. & Co., $56.40; Simson, Balkwill & Co., Ltd., $12.73; J. Sinker, $10; Suttie Bros., $5.50; Vancouver Daily Sun, $25.20; Vancouver Engineering Works, Ltd., $1,197; Weeks & Co., $85.80; W. K. Woodyard, $65.65		2,348 96	
	Students' mileage		2,483.30	
	Allowance to Teachers assisting Normal Students: City of Vancouver		1,065 00	
	Total expenditure, Normal School, Vancouver:			$ 36,626 94
85.	VICTORIA.			
	Salaries ($22,042.50):			
	Principal ..... D. L. MacLaurin		$ 3,420 00	
	Assistant Masters: E. Butterworth $ 320 00; H. Dunnell ..$2,820 00; V. L. Denton... 2,880 00; B. S. Freeman 2,520 00		8,540 00	
	Music Master ..... E. H. Russell		501 35	
	Domestic Science Mistresses: L. Denne .....$600 00; A. M. Macfarlane $1,050 00		1,650 00	
	Principal, Model School .... K. Scanlon		1,800 00	
	Teacher, Model School ..... I. M. F. Barron		1,440 00	
	Engineer ..... I. E. Marks		1,560 00	
	Assistant Engineer ..... A. E. Horner		1,320 00	
	Janitor ..... W. McMichael		1,170 00	
	Librarian and Stenographer. F. McLean		641 15	
	Carried forward		$ 22,042 50	$ 36,626 94 $ 257,989 85

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF EDUCATION—*Continued.*			
	NORMAL SCHOOLS—*Continued.*			
85.	VICTORIA—*Continued.*			
	Brought forward	$ 22,042 50	$ 36,626 94	$ 257,989 85
	Expenses ($52,236.67):			
	Office Supplies, etc.: American Cookery, $1.70; American Home Economics Association, $2.20; American Penman, $1.70; Atlantic Monthy Co., $6; I. M. F. Barron, $3.75; G. Barrowman, $13.50; M. H. Barry, $3.70; Bird Lore, $1.50; J. Brand & Co., $33.25; B.C. Telephone Co., Ltd., $95.84; Cascade Freighting & Towing Co., Ltd., $1.20; Central Scientific Co., $87.56; Clarke & Stuart Co., Ltd., $222.75; Colonist P. & P. Co., Ltd., $11.90; Comstock Publishing Co., $1.50; Cornhill Magazine, $4.07; L. Denne, $44.07; Doubleday, Page & Co., $7.35; J. Dougall & Son, $2.50; R. Durheim, $1.20; Educational Publishing Co., $4.50; J. L. Forrester, $125; B. S. Freeman, $4.55; Ginn & Co., $10; Globe Printing Co., $27.75; G.N.W. Telegraph Co., $8.39; K. Hemming, $6.50; Hertel-Harshman Co., $34.20; T. N. Hibben & Co., $26.04; J. Hood, $84; Houghton-Mifflin Co., $6.64; House Beautiful Publishing Co., $4.50; Journal Publishing Co., $27; King's Printer, $141.88; J. Lane Co., $6.60; Litchfields, Ltd., $284.10; Literary Digest, $4.85; Macey-Abell Co., Ltd., $206.65; A. Macfarlane (sundry accounts), $204.35; Macmillan Co. of Canada, Ltd., $9.50; A. H. Maynard, $15.30; Mentor Association, $4.50; Mitchell Bros., $31.59; Montreal Daily Star, $21.40; D. L. MacLaurin (sundry accounts), $44.19; R. M. McBride & Co., $4.50; J. M. McGee, $47.50; McTavish Bros., $3.92; National Drug & Chemical Co. of Canada, Ltd., $3.35; National Geographic Society, $11.74; New Method Laundry, Ltd., $72.70; Northwestern Miller, $2; Ontario Publishing Co., Ltd., $5; H. Osgood, $4.80; F. A. Owen Publishing Co., $2.55; A. N. Palmer Co., $5.50; H. Panting, $11.80; W. J. Pendray & Sons, Ltd., $60; Perry Pictures Co., $34.13; Popular Mechanics Co., $3; T. Presser Co., $2.25; E. G. Prior & Co., Ltd., $2.68; Producers Rock & Gravel Co., Ltd., $12; Reliable Transfer Co., $7.75; R. P. Rithet & Co., Ltd., $14.25; W. J. Savory, $7.30; The School, $1.25; School Arts Magazine, $3.60; Sentinel Publishing Co., Ltd., $3.50; H. Smethurst, $10; D. Spencer, $100.35; The Times, London, Eng., $9.23; Times P. & P. Co., Ltd., $14.30; Vancouver Daily Province, $16.20; Victoria Baggage Co., $3.75; Victoria Chemical Co., $33.60; Victoria Furniture Co., Ltd., $6.50; Weiler Bros., $7.20; Wherry & Tow, $17.25; Wilson Bros., $8; The World, Ltd., $25.95; Zaner & Bloser Co., $1.25 ...	2,471 87		
	Travelling Expenses: V. L. Denton, $13.70; B. S. Freeman, $23.90; A. M. Macfarlane, $23.60; K. Scanlon, $17.50	78 70		
	Fuel, Water, and Light: D. R. Banfield, $4.50; B.C.E.R. Co., Ltd., $247.67; Imperial Oil, Ltd., $72.26; King's Printer, $2.50; Mackay & Gillespie, Ltd., $2,491.80; Corporation of District of Saanich, $169.25; Times P. & P. Co., Ltd., $8	2,995 98		
	Carried forward	$ 27,589 05	$ 36,626 94	$ 257,989 85

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF EDUCATION—*Continued.*			
	NORMAL SCHOOLS—*Continued.*			
85.	VICTORIA—*Continued.*			
	Brought forward		$ 36,626 94	$ 257,989 85
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, Grounds, etc.: Arco Co., $175; J. Bell, $1; Brown's Victoria Nurseries, Ltd., $200.70; Canadian Fairbanks-Morse Co., Ltd., $6.63; C.P.R. Co., $24.55; Carter Electric Co., Ltd., $17.95; Colonist P. & P. Co., Ltd., $15.60; Dominion Rubber System (Pacific), Ltd., $39.86; Evans, Coleman & Evans, Ltd., $70.95; Fairfield Express, $1; W. S. Fraser & Co., Ltd., $91.67; J. Hamilton, $5.50; A. Haut, $1.50; C. Houghton, $2.20; King's Printer, $9; Lemon-Gonnason Co., Ltd., $222.09; W. Mable, $4.25; I. E. Marks, 75c.; E. B. Marvin & Co., $37.72; Mellor Bros., Ltd., $22.90; A. Milligan, $2.40; Musgrave & White, $25; W. N. O'Neil Co., Ltd., $16.73; J. B. Partington, $67.52; E. G. Prior & Co., Ltd., $24.60; Public Works Department, $201.80; Ramsay's Machine Works, $47.29; Reliable Transfer Co., $54; J. Richards, $25; A. Sheret, $110.10; G. A. Stevens, $54; Times P. & P. Co., Ltd., $16; W. Tyson, $2.32; Warren, Doran & Mowat, $3,630; H. M. Wilson, $7.50; pay-lists, labour, $1,439.75 ..	6,674 83		
	Students' mileage	2,638 35		
	Allowance to Teachers assisting Normal Students: City of Victoria	750 00		
	Total expenditure, Normal School, Victoria		37,652 23	
	Total expenditure, Normal Schools			74,279 17
86.	DEAF, DUMB, AND BLIND.			
	Oral School, Vancouver:			
	Salaries ($5,084.62): C. R. Frame $440 00; R. Wallace $700 00; V. B. Kent 810 81; E. B. Winchester 810 81; G. C. Lawrence 300 00; T. M. Wrestling 798 00; S. H. Lawrence 1,225 00		$ 5,084 62	
	General Expenses, etc. ($8,365.02): Barr & Anderson, $18.61; R. H. Beharrell, $60; B.C. Telephone Co., Ltd., $16.50; L. O. Browne, $35; J. Brownlee, $210; Clarke & Stuart Co., Ltd., $65.05; D. Cook, $392; W. Crane, $1,042.21; J. Dearin, $130.40; A. Farrow, $271.42; V. Hadfield, $360; J. Hanbury & Co., Ltd., $5.25; W. Harrington, $236.83; E. Jewell, $40; D. Johnston, $235; King's Printer, $7.05; J. Lamb, $210; C. Longhurst, $173.38; J. M. Macalister, $57.50; Marpole Co., Ltd., $156; C. E. Marconini, $20.10; L. Munro, $950; W. T. McArthur & Co., Ltd., $53.40; D. McLeod, $330; J. B. McPhail, $280; National Drug & Chemical Co. of Canada, Ltd., $1.10; Point Grey Wood & Coal Co., $88.50; J. Rees, $195; I. M. Smith, $385; City of Vancouver, $2,269.72; J. Wightman, $70		8,365 02	
	Expenses at Outside Points ($11,581.30): Brantford School for Blind, $30.50; California School for Deaf and Blind, $257.85; T. D. DesBrisay, $123.90; G. Duclos, $33; G. Every-Clayton, $73.95; Halifax School for Deaf, $500; Manitoba School for Deaf, $8,565.82; Ontario School for Blind, $1,946.28; Toronto Conservatory of Music, $50		11,581 30	
	Total expenditure, Deaf, Dumb, and Blind			25,030 94
	Carried forward			$ 357,299 96

No. of Vote.	SERVICE.	Expended.
	DEPARTMENT OF EDUCATION—*Continued.*	
	Brought forward	$ 357,299 96
87.	PER CAPITA GRANTS TO CITIES.	
	Cities of the First Class:	
	New Westminster ..... 82 Teachers ..... $ 38,333 25	
	North Vancouver (3 mos.) 42 „ 5,720 00	
	Vancouver .....548 „ 242,036 50	
	Victoria .....202 „ 88,588 30	
	$374,678 05	
	Cities of the Second Class:	
	Chilliwack ..... 15 Teachers ..... $ 7,583 35	
	Cranbrook ..... 17 „ 8,666 65	
	Fernie ..... 26 „ 13,260 00	
	Grand Forks ..... 13 ..... 6,370 00	
	Kamloops ..... 21 „ 9,750 00	
	Kelowna ..... 17 „ 8,970 00	
	Ladysmith ..... 14 „ 8,103 35	
	Nanaimo ..... 29 „ 16,886 65	
	Nelson ..... 27 „ 14,646 65	
	Prince Rupert ..... 21 „ 11,743 35	
	Revelstoke ..... 19 „ 9,880 00	
	Rossland ..... 14 „ 8,536 65	
	Trail ..... 21 „ 11,180 00	
	North Vancouver (9 mos.) 42 „ 15,903 30	
	Vernon ..... 21 „ 11,613 35	
	163,093 30	
	Cities of the Third Class:	
	Alberni ..... 3 Teachers ..... $ 1,695 00	
	Armstrong ..... 18 „ 10,028 75	
	Courtenay ..... 5 „ 2,401 25	
	Cumberland ..... 14 „ 13,829 25	
	Duncan ..... 16 „ 9,860 85	
	Enderby ..... 6 „ 3,342 90	
	Greenwood ..... 4 „ 3,760 00	
	Kaslo ..... 6 „ 4,290 00	
	Merritt ..... 9 „ 4,849 60	
	Phoenix ..... 3 „ 423 75	
	Port Alberni ..... 5 „ 2,825 00	
	Port Coquitlam ..... 8 „ 3,719 60	
	Port Moody ..... 5 „ 3,060 40	
	Prince George ..... 8 „ 4,096 25	
	Salmon Arm ..... 6 „ 3,390 00	
	Slocan ..... 3 „ 1,459 60	
	73,032 20	
	Total expenditure, Per Capita Grants to Cities	610,803 55
88.	PER CAPITA GRANTS TO MUNICIPALITIES.	
	Burnaby ..... 59 Teachers ..... $ 32,074 00	
	Chilliwack ..... 26 „ 15,660 00	
	Coldstream ..... 2 „ 1,160 00	
	Coquitlam ..... 7 „ 4,002 00	
	Delta ..... 17 „ 10,790 60	
	Esquimalt ..... 18 „ 11,600 00	
	Kent ..... 6 „ 3,654 00	
	Langley ..... 26 „ 14,152 00	
	Maple Ridge ..... 19 „ 10,846 00	
	Matsqui ..... 20 „ 11,554 90	
	Mission ..... 20 „ 11,716 00	
	Oak Bay ..... 18 „ 10,440 00	
	Peachland ..... 5 „ 2,900 00	
	Penticton ..... 5 „ 10,846 00	
	Pitt Meadows ..... 2 „ 1,160 00	
	Point Grey ..... 63 „ 35,554 00	
	Carried forward $188,109 50	$ 968,103 51

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF EDUCATION—*Continued.*		
88.	PER CAPITA GRANTS TO MUNICIPALITIES—*Continued.*		
	Brought forward	$188,109 50	$ 968,103 51
	Richmond ..... 20 Teachers	11,368 00	
	Saanich ..... 53 „	30,160 00	
	Salmon Arm ..... 8 „	4,640 00	
	Sumas ..... 7 „	3,468 30	
	Summerland ..... 11 „	7,134 00	
	Surrey ..... 31 „	17,342 00	
	Vancouver, North ..... 18 „	9,802 00	
	Vancouver, South .....172 „	104,110 00	
	Vancouver, West ..... 9 „	4,786 00	
	Total expenditure, Per Capita Grants to Municipalities		380,919 80
89.	PER CAPITA GRANTS TO RURAL SCHOOL DISTRICTS.		
	Total expenditure		131,985 35
90.	SALARIES OF TEACHERS IN ASSISTED SCHOOLS.		
	Total expenditure		413,990 80
91.	SALARIES OF TEACHERS IN E. & N. RAILWAY BELT.		
	Total expenditure		88,859 75
92.	SCHOOL BUILDINGS.		
	Erection of New Buildings and Maintenance and Repairs of School Buildings:		
	New Buildings:		
	Abbotsford, $88.40; Adelphi, $63.30; Armstrong, $49,666.14; Barriere, $75; Bellevue, $257.80; Bonaparte Valley, $100; Brilliant, $1,050; Camp Lister, $1,400; Canim Lake, $200; Carroll's Landing, $300; Cawston, $709.05; Chief Lake, $125.66; Chilco, $10.80; Clifton, $36.14; Collishaw, $33.87; Courtenay, $21,878; Cumberland, $22,100; Decker Lake, $250; Driftwood, $250; East Gabriola, $29.10; Engen, $148.77; Errington, $2,374.90; Fir Valley, $25.52; Fort St. John, $167.70; Glade, $700; Glentanna, $250; Granby, $19,237; Harewood, $450; Harpers Camp, $200; Hazelton, $1,000; Heywood's Corner, $150; Hulatt, $250; Keremeos, $800; Kilgard, $1,275; Kimberley, $14,075; Kitsumgallum, $2,465; Krestova, $350; Lackenby, $150; Langley, $500; Loos, $43.83; Matsqui, $848.05; Merville, $111; McConnell Creek, $140.59; McLure, $60.85; New Westminster, $18,000; Nithi, $39; North Cedar, $15,808.50; North Galiano, $50; Norwegian Creek, $300; Oak Bay, $6,795; Orange Valley, $300; Outlook, $350; Pass Creek, $350; Paxton, $4; Pender Harbour, $400; Point Grey, $45,000; Port Moody, $1,172.55; Powell River, $11,900; Prince Rupert, $56,456.91; Royston, $300; Rose Lake, $200; Rutland, $3,255.50; Saanich, $1,081.51; Seechelt, $350; Shirley, $4.30; South Vancouver, $20,000; Spencer, $350; Swan Lake, $400; Taylor's Flats, $300; Telkwa, $6,875; Pouce Coupe, $221; Topley, $250; Union Bay, $350; Usk, $250; Vinsulla, $479.09; Williams Lake, $808.14; Wilson Creek, $300; Wire Cache, $150; Woods Lake, $12,617	$349,863 97	
	Maintenance and Repairs:		
	Albert Head, $150; Aleza Lake, $31.63; Bellevue, $42.20; Castledale, $24.94; Fort Fraser, $989.25; Gladwin, $25.24; Granby Bay, $200; Matsqui, $718.60; Meldrum Creek, $16.64; McBride, $46.60; Okeover, $40; Pender Island, $788.20; Sandon, $600; Shirley, $63.85; Winlaw, $65	3,802 15	
	Clerks of the Works, etc.:		
	A. J. Bossoms, $70; O. B. Hatchard, $192; G. C. Hunter, $442.30; J. W. Ledgerwood, $1,256.50; H. Middleton, $130; D. A. McKinnon, $24; H. McRae, $292; C. A. E. Shaw, $15; E. Totty, $418.50; C. Wing, $100	2,940 30	
	Carried forward	$356,606 42	$1,983,859 21

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF EDUCATION—*Continued.*		
92.	SCHOOL BUILDINGS—*Continued.*		
	Brought forward	$356,606 42	$1,983,859 21
	Erection of New Buildings and Maintenance and Repairs of School Buildings—*Continued.*		
	Sundry Expenses:		
	J. A. Bates, $11.20; Central Interior Printing Co., $6.60; Clarke & Stuart Co., $18,050.89; Colonist P. & P. Co., Ltd., $47.20; Columbian Co., Ltd., $37.80; Comox Argus, $16.80; Cranbrook Courier, $22.44; Dawson Creek School, $220; Interior News, $12.60; Kelowna Courier, $14.84; King's Printer, $342.95; Koch Siding School, $124.70; Lands Department, $61.40; Merritt Herald, $12.32; A. Milligan, $1.04; Miocene School District, $50; Nanaimo Free Press, $43.44; Nechako Chronicle, $8.80; Nelson News, $19.15; Omineca Herald, $42.04; Powell River School, $300; Prince Rupert News, $143.10; Record Publishing Co., $93.60; Ship Chandlers, Ltd., $25.40; Smith, Davidson & Wright, Ltd., $577.85; Stewart School District, $83.69; Taylor's Flats School, $160.40; Times P. & P. Co., $136; Vancouver Province, $603.15; Vancouver Sun, $291.45; Vernon News, $28.04	21,588 89	
	Total expenditure *re* School Buildings		378,195 31
93.	GRANTS TO LIBRARIES.		
	Albert Head, $16; Athalmer, $16.80; Barriere River, $15; Burnaby, $50; Chase River, $24.13; Chilliwack, $50; Coldstream, $45.52; Crawford Bay, $9.74; Duncan, $50; Ellison, $10.25; Essington, $27.62; Esquimalt, $47.50; Fernie, $24.60; Howe Sound, $50; Kamloops, $25; Kent, $50; Kimberley, $23.20; Matsqui, $50; Merville, $13.97; New Westminster, $50; North Bend, $9.92; Ocean Falls, $50; Okanagan Centre, $20.50; Oyama, $20.76; Port Alberni, $18.33; Port Moody, $8.90; Reiswig, $7.35; Richmond, $50; Salmon Arm, $50; Slocan, $17.26; Summerland, $15; Vernon, $50	$ 967 35	
	Total expenditure, Grants to Libraries		967 35
94.	GRANTS TO AID OF MANUAL-TRAINING EQUIPMENT.		
	Pitt Meadows, $28.84; Rutland, $21.77; Summerland, $172.42.....	$ 223 03	
	Total expenditure, Manual-training Equipment		223 03
95.	EXAMINATION OF TEACHERS AND HIGH SCHOOL ENTRANCE CLASSES.		
	I. Abel, $15.14; C. W. Abercrombie, $210.90; A. Anstey, $161; E. H. Archibald, $487.90; J. A. Armstrong, $200; H. Ashton, $79.30; E. Berry, $41.10; W. Bews, $52.88; G. H. Bevan-Pritchard, $200; R. R. Bice, $20.14; A. Blackberg, $15; H. M. Bolton, $20.20; P. A. Boving, $25.75; L. J. Bruce, $131.75; D. Bryant, $2.40; F. G. Calvert, $221.61; W. W. Campbell, $200; J. A. Cann, $395.25; A. P. Carter, $3.50; H. Chodat, $285; F. M. Cowperthwaite, $210.35; W. Cruickshank, $15; E. DeBou, $4.50; J. B. DeLong, $150; V. L. Denton, $204; H. Dunnell, $204; C. E. Emery, $200; W. J. Fee, $427.85; M. Fitzgerald, $20.19; J. M. Fjelsted, $1.01; B. S. Freeman, $200; J. Gillett, $20; G. H. Gower, $160.09; D. Gray, $20; M. Greenaway, $7; J. Grice, $20.42; V. E. Hall, $184; W. M. Halliday, $20.19; J. E. Hamilton, $200; A. Harris, $20; J. Henderson, $361.95; E. Henry, $138.75; J. K. Henry, $435.50; C. A. S. Higgs, $20.12; H. P. Hope, $314.70; A. H. Hutchinson, $391.10; I. M. Ilstad, $14.25; A. B. Jamieson, $421.25; H. A. Jones, $10; G. Lawrence, $20; J. G. Lister, $65; R. A. Little, $363.75; A. R. Lord, $204.25; M. Lott, $20; M. A. Lucas, $9; A. M. Macphail, $26.75; T. J. Marsh, $22; J. Martin, $129.50; S. W. Mathews, $418.96; A. F. Matthews, $176.40; M. Maxwell, $16.02; W. H. M. May, $125; A. E. Miller, $128.50; F. Milley, $10.26; L. Mitchell, $23.40;		
	Carried forward		$2,363,244 90

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF EDUCATION—*Continued.*		
95.	EXAMINATION OF TEACHERS AND HIGH SCHOOL ENTRANCE CLASSES—*Continued.*		
	Brought forward		$2,363,244 90
	W. H. Muncy, $204; E. A. Munro, $5; I. MacInnes, $70; J. A. MacIntosh, $209.35; A. B. MacKenzie, $10; H. H. MacKenzie, $125; K. G. MacKenzie, $18.90; D. L. MacLaurin, $341.95; M. McKenzie, $14.05; M. V. McLenaghen, $3.35; E. W. Parker, $10; J. M. Paterson, $168.50; E. B. Paul, $391.15; J. A. Petrie, $20.55; W. Putnam, $253.25; C. B. Reynolds, $176; L. Richardson, $435.62; L. Robertson, $472.70; D. M. Robinson, $166.25; L. V. Rogers, $437.75; E. H. Russell, $519.96; W. N. Sage, $358.94; A. Simpson, $25.78; A. G. Smith, $357.75; H. Smith, $20; J. C. Spencer, $20; A. C. Stewart, $202; A. Sullivan, $150; O. J. Todd, $381.35; F. J. Tregillus, $20.53; A. J. Weber, $25.81; W. N. Winsby, $125; F. G. C. Wood, $457.80; M. L. Wright, $20.10; E. L. Yeo, $200; B.C. Telephone Co., Ltd., $3.20; B. Brynildsen & Co., $20; Burr Office Supplies Co., $71.73; Canadian Express Co., $2.50; Clarke & Stuart Co., Ltd., $260.42; C. D. Clough, $14; Dominion Express Co., $117.03; Jepson Bros., $10.15; King's Printer, $2,501.67; J. A. Knight, $5.25; H. O. Litchfield, $20.70; J. V. MacLeod, 90c.; T. A. Pollock, $1.40; H. F. Prevost, $9.90; Reliable Messenger & Delivery Co., 35c.; Reliable Transfer Co., $9.50; Times P. & P. Co., Ltd., $10.25; Victoria Book & Stationery Co, Ltd., $96.66	$ 18,497 83	
	Total expenditure *re* Teachers' Examinations and High School Entrance		18,497 83
96.	CONVEYING CHILDREN TO CENTRAL SCHOOLS.		
	Armstrong, $232.50; Beaver Creek, $215; Chilliwack, $81.25; Duncan, $2,583.35; Grand Forks, $124.60; Kent, $661.35; Langley, $790.50; Maple Ridge, $1,352.50; Mission, $132; Naramata, $62.50; Peachland, $188; Pitt Meadows, $54; Richmond, $636.20; Saanich, $1,217.50; Summerland, $2,422.30; Surrey, $1,240.82	$ 11,994 37	
	Total expenditure, Conveying Children to Central Schools		11,994 37
97.	SCHOLARSHIPS FOR BRITISH COLUMBIA STUDENTS FOR POST-GRADUATE STUDY IN FRANCE.		
	Nil		
98.	CONTINGENCIES AND INCIDENTALS.		
	Atlin School, $75.44; A. Bowles, $7.70; Brechin School, $180; T. A. Brough, $12.40; Clearing House, Dept. of Secretary of State, Ottawa, $95.75; C. F. Connor, $9.50; Dept. of Militia and Defence, $2; Discovery School, $124.90; Essondale School, $60.94; Fort George School, $1,098.55; A. H. Hutchinson, $11.25; Keremeos School, $100; A. E. C. Martin, $132.14; F. J. Mayers, $10; Merville School, $383.52; E. H. Murphy, $20.25; J. A. MacIntosh, $12.75; H. B. MacLean, $14.55; 1-Mile Creek School, $30; Princeton School, $150; Procter School, $127.50; Reading Camp Association, $500; Sandon School, $45.83; K. Scanlon, $255.52; South Fort George, $990.72; R. W. Suter, $8; L. W. Taylor, $12.50; Technical Press, $211.13; J. L. Watson, $50; B. J. Wood, $11.20	$ 4,744 04	
	Total expenditure, Contingencies and Incidentals		4,744 04
99.	GRANT TO UNIVERSITY OF BRITISH COLUMBIA.		
	Grant		420,000 00
	STATUTORY EXPENDITURE.		
	"Public Schools Act Amendment Act, 1918," Sec. 26.		
	Advances *re* assessed school taxes		258,463 21
	Total expenditure, Department of Education		$3,076,944 35

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF FINANCE.		
100.	**MINISTER'S OFFICE.**		
	Salaries ($10,179.78):		
	Minister of Finance ..... Hon. John Hart	$ 6,250 00	
	Secretary ..... R. J. Hartley	2,040 00	
	Acting-Secretaries:		
	R. W. Hartley .....$233 33 W. A. McAdam $696 45	929 78	
	Clerk and Stenographer ..... M. A. Wood	960 00	
		$ 10,179 78	
	Expenses ($2,203.81):		
	Office Supplies, etc.:		
	B.C. Financial Times, $2; B.C. Telephone Co., Ltd., $117.15; C.P.R. Telegraphs, $128.71; Colonist P. & P. Co., Ltd., $12; Columbia University, $3.23; Fairplay Publishing Co., $1.50; Financial Publishing Co., $5; G.N.W. Telegraph Co., $553.25; G.T.P. Telegraph Co., 89c.; Journal of Commerce Publishing Co., $3; King's Printer, $158.59; Lands Department, $4; Macey-Abell Co., Ltd., $26.10; Macmillan Co. of Canada, $14.15; Mining Truth Publishing Co., $3; Monetary Times, $3; Montreal Financial Times, $3; MacLean Publishing Co. Ltd., $1.25; postage, $109.30; Public Works Department, $1; Shaw & Sons, $7.49; G. B. Snell, $7.50; Times P. & P. Co., Ltd., $12.60; Vancouver Daily Province, $6; Weiler Bros., Ltd., $1.50; The World, Ltd., $4; Wrigley Directories, Ltd., $10 ...	1,199 21	
	Travelling Expenses:		
	Hon. John Hart	1,004 60	
	Total expenditure, Minister's Office		$ 12,383 59
101.	**GENERAL OFFICE.**		
	Salaries ($22,734.61):		
	Deputy Minister ..... W. J. Goepel	$ 4,320 00	
	Assistant Deputy Minister and Inspector of Revenue ..... E. D. Johnson	3,300 00	
	Clerks:		
	E. P. Gillespie .....$ 308 71 W. H. Keatinge ...$1,452 00		
	W. E. Graves ..... 2,220 00 H. A. S. Morley ... 2,400 00		
	R. E. Hanson ..... 1,452 00 M. Wilkinson 1,020 00		
	H. L. Harding 1,452 00	10,304 71	
	Cashier ..... H. M. Finlayson	1,920 00	
	Junior Clerk ..... C. Davies	614 50	
	Stenographers:		
	T. G. Lees .....$ 75 00 E. M. Steele $872 50		
	J. Ross 127 90	1,075 40	
	Special Auditor ..... H. A. Munn	1,200 00	
		$ 22,734 61	
	Expenses ($11,700.67):		
	Office Supplies, etc.:		
	B.C. Telephone Co., Ltd., $119.74; Cameron & Calwell, $8.50; Canadian Bank of Commerce, $16.81; Canadian Express Co., 95c.; C.P.R. Telegraphs, $143.70; Colonist P. & P. Co., Ltd., $3,729.72; Dominion of Canada Guarantee & Accident Insurance Co., $42.50; Dominion Express Co., $9.20; Dominion Government Telegraphs, $1.47; E. & N. Railway Co., Ltd., $10.03; W. S. Fraser & Co., Ltd., $3.70; W. J. Goepel, $3; G.N.W. Telegraph Co., $89.35; Hafer Machine Co., Ltd., $7.87; Heaton's Agency, $8.12; G. H. Hewitt Co., Ltd., $71.60; King's Printer, $3,502.01; Lemon-Gonnason Co., Ltd., $2.25; Macey-Abell Co., Ltd., $34; H. A. Munn, $34.05; Omineca Herald, $2.50; postage, $1,032.82; Public Works Department, $9; Receiver-General of Canada, $5; Reliable Messenger & Delivery Co., $1.75; Reliable Transfer Co., $19.85; F. Tatham, $13.50;		
	Carried forward	$ 22,734 61	$ 12,383 59

No. of Vote.	SERVICE.	Expended.
	DEPARTMENT OF FINANCE—*Continued.*	
101.	GENERAL OFFICE—*Continued.*	
	Brought forward	$ 22,734 61 $ 12,383 59
	Expenses—*Continued.*	
	Office Supplies, etc.—*Continued.*	
	Victoria Numerical Telephone Locator, 50c.; Victoria Typewriter Exchange, $11.50; Waites & Knapton, $1.75; Weiler Bros., Ltd., 90c.	8,937 64
	Discount and Exchange, Legal Expenses, etc.:	
	Canadian Bank of Commerce	4,831 62
		$ 36,503 87
	By cash	2,068 59
	Total expenditure, General Office	34,435 28
102.	INSPECTOR OF TRUST COMPANIES, PROBATE AND SUCCESSION DUTIES.	
	Salaries ($9,720):	
	Inspector .....A. C. Campbell	$ 2,550 00
	Clerk .....A. V. Macan	1,800 00
	Stenographers:	
	R. Melville .....$60 00 D. H. Waites $900 00	960 00
	Valuators of Estates:	
	C. W. Appleyard .....$50 00 T. K. Gray .....$ 25 00	
	A. S. Ashwell ..... 25 00 D. W. Grimmett 25 00	
	J. H. Ashwell ..... 50 00 H. L. Hutton 25 00	
	H. W. Bevan ..... 25 00 F. S. Jones 242 50	
	Bishop & Worthington 25 00 J. L. Kerr 600 00	
	B. Boggs ..... 809 50 R. A. Kimpton 90 00	
	J. C. Bridgman ..... 25 00 F. Landsberg 25 00	
	A. C. Brydone-Jack .. 25 00 D. Leeming 50 00	
	F. R. Carlow ..... 75 00 Lee & Fraser 95 00	
	N. R. Chirst ..... 25 00 G. H. Morkill 104 00	
	R. P. Clark & Co., Ltd. 575 00 F. L. Murdoff 150 00	
	L. U. Conyers & Co. .. 692 00 N. A. McDiarmid .. 25 00	
	Cory & Power ..... 50 00 W. D. McFarland .. 25 00	
	C. T. Cross ..... 25 00 A. Philip 25 00	
	H. E. Dalby ..... 25 00 D. Poppy 25 00	
	English & Brown .... 100 00 T. M. Roberts 52 00	
	J. W. Fairhall ..... 50 00 R. H. Swinerton ... 125 00	
	E. C. Gibbons ..... 25 00 F. J. White 25 00	4,410 00
		$ 9,720 00
	Expenses ($1,474.06):	
	Office Supplies, etc.:	
	B.C. Telephone Co., Ltd., $34.40; Burroughs & Co., $27; C.P.R. Telegraphs, $1.51; Dominion of Canada Guarantee & Accident Insurance Co., $12.50; G.N.W. Telegraph Co., $3.73; King's Printer, $929.44; Monetary Times, $3; postage, $155.48; Saturday Night, $4; Vancouver Daily Province, $4; Wrigley Directories, $10	1,185 06
	Travelling Expenses:	
	A. C. Campbell, $190.50; A. V. Macan, $98.50	289 00
	Total expenditure, Inspector of Trust Companies, etc.	11,194 06
103.	CONTROLLING AND AUDIT BRANCH.	
	Salaries ($46,965.95):	
	Comptroller-General .....A. N. Mouat	$ 6,000 00
	Deputy Comptroller-General.....H. N. Wright	3,000 00
	Accountant .....S. D. McHaffie	1,900 00
	Secretary .....F. J. N. Fergusson	990 00
	Auditor of Revenue .....A. B. McNeill	2,640 00
	Carried forward	$ 14,530 00 $ 58,012 93

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF FINANCE—*Continued.*				
103.	CONTROLLING AND AUDIT BRANCH—*Continued.*				
	Brought forward			$ 14,530 00	$ 58,012 93
	Salaries—*Continued.*				
	Travelling Auditors:				
	T. Cole	$608 17	A. S. Tyrer	$1,920 00	
	H. A. Munn	600 00	R. P. Wilmot	1,440 00	4,568 17
	Auditor of Disbursements		H. N. Howard		2,640 00
	Chief Clerk		F. H. Harrison		1,900 00
	Clerks:				
	W. W. Anderson	$1,660 00	A. W. Gill	$ 52 50	
	T. Cole	876 09	J. H. Hodson	1,380 00	
	J. E. Durand	1,800 00	H. A. Jesse	1,800 00	
	A. C. Futcher	1,050 00	T. H. Mayne	1,747 33	
	A. Galbraith	1,500 00	R. P. Wilmot	415 00	12,280 92
	Junior Clerk		T. M. Service		840 00
	Stenographers:				
	G. M. Blizard	$398 71	E. M. Monteith	$ 75 00	
	S. B. Hamilton	338 71	G. B. Morash	95 00	
	R. Hinton	22 50	M. Sibbald	764 66	
	M. Lucas	52 42	E. Steele	27 50	1,774 50
	Purchasing Agent		J. Paterson		3,240 00
	Assistant Purchasing Agent		A. Hamilton		2,100 00
	Clerks:				
	F. D. Brae	$1,375 00	J. Smith	$125 00	1,500 00
	Stenographers:				
	N. Hall	$714 51	M. Irwin	$60 35	
	T. G. Lees	817 50			1,592 36
				$ 46,965 95	
	Expenses ($5,933.68):				
	Office Supplies, etc.:				
	American News Co., Ltd., $24.60; B.C. Saddlery Co., Ltd., $1.25; B.C. Telephone Co., Ltd., $239.41; Canadian Freight Association, $15; C.P.R. Telegraphs, $42.93; Colonist P. & P. Co., Ltd., 85c.; Dominion of Canada Guarantee & Accident Insurance Co., $25; Dominion Express Co., $5.70; Dominion Government Telegraphs, $2.58; Finance Publishers, Ltd., $2; G.N.W. Telegraph Co., $14.85; King's Printer, $1,101.89; Macey-Abell Co., Ltd., $104.01; N. F. McDonald, $3.25; Pacific Cartage, Ltd., $4.25; postage, $230.96; Reliable Transfer Co., $1; D. Spencer, Ltd., $17.51 Times P. & P. Co., Ltd., $9; United Typewriter Co., Ltd., $79.50; Victoria Typewriter Exchange, $36.50; Victoria Book & Stationery Co., Ltd., $3.50; Wrigley Directories, Ltd., $20				1,985 54
	Travelling Expenses:				
	T. Cole, $420.30; F. H. Harrison, $110.20; A. N. Mouat, $45.05; A. B. McNeill, $888.21; J. Paterson, $462.65; A. S. Tyrer, $1,233.18; R. P. Wilmot, $725.10; H. N. Wright, $63.45				3,948 14
	Total expenditure, Controlling and Audit Branch				52,899 63
104.	SURVEYOR OF TAXES.				
	Salaries ($17,016.63):				
	Surveyor of Taxes		E. E. Leason	$ 3,300 00	
	Assistant Surveyor of Taxes		V. C. Martin	3,000 00	
	Supervisor		R. R. Napier	600 00	
	Chief Clerk		M. S. Morrell	1,719 96	
	Clerks:				
	J. T. Clark	$1,500 00	H. V. Mills	$ 300 00	
	W. C. Ellis	1,136 67	C. S. McKilligan	1,500 00	
	H. S. Flett	1,500 00			5,936 67
	Clerk and Stenographer		M. Chivers		840 00
	Carried forward			$ 15,396 63	$ 110,912 56

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF FINANCE—*Continued.*		
104.	SURVEYOR OF TAXES—*Continued.*		
	Brought forward	$ 15,396 63	$ 110,912 56
	Salaries—*Continued.*		
	Stenographers:		
	D. Greaves .....$840 00 L. Wootton $455 00		
	C. L. Wood 325 00	1,620 00	
		$ 17,016 63	
	Expenses ($42,461.10):		
	Office Supplies, etc.:		
	B.C. Telephone Co., Ltd., $231.72; Burroughs & Co., $1.50; C.P.R. Telegraphs, $189.46; Carter Electric Co., Ltd., $6.50; Colonist P. & P. Co., Ltd., $14.40; Cowichan Leader P. & P. Co., Ltd., $2.88; Daily Nanaimo Free Press, $12.96; Dominion of Canada Guarantee & Accident Insurance Co., $12.50; Dominion Express Co., $8.70; R. G. Dun & Co., $125; Dominion Government Telegraphs, $3.02; P. Edmonds, $80; G.N.W. Telegraph Co., $22.97; E. S. Harris, $1; King's Printer, $5,321.04; Lands Department, $51.56; L. C. Lytton, $25; Macey-Abell Co., Ltd., $228.34; Moore Publishing Co., $6; News Publishing Co., Nelson, $11.55; News P. & P. Co., Ltd., Prince Rupert, $25.20; postage, $291.84; Progress Publishing Co., Ltd., $1.50; Times P. & P. Co., Ltd., $16.80; United Typewriter Co., Ltd., $153.90; Vancouver Daily Province, $26.40; Waites & Knapton, 75c.; Weiler Bros., Ltd., $2; The World, Ltd., $16.20; Wrigley Directories, Ltd., $10	6,900 69	
	Travelling Expenses:		
	W. H. J. Norris, $8; A. Beatty, $47.60; E. D. Johnson, $48.50; E. E. Leason, $226.49; V. C. Martin, $149.90; R. R. Napier, $105.05	585 54	
	Commission on Collection of Revenue:		
	G. H. Adam, $57.25; W. E. Adams, $35.50; L. A. Agassiz, $37.57; C. E. L. Agassiz, $61.25; W. Allan, $8.57; J. A. Anderson, $3.50; E. Archibald, $8.75; R. F. Archibald, $23.80; A. Arden, $18.75; T. J. Armstrong, $400.75; P. C. Badman, $85; T. L. Baker, $10.50; C. G. Barber, $7.25; J. G. Barber, $10; H. T. Bartlett, $2.25; N. J. Barwick, $71.25; G. D. Beadnell, $4.75; J. W. Beattie, $25; R. A. Beaven, $10.50; H. Bentley, $4.50; J. L. Bethurem, $98.85; F. G. Bews, $5; T. Boothe, $10; R. W. Bowen, $88.75; J. H. Bowering, $2; C. W. Boyce-Hill, $9; R. P. Bradley, $18.75; C. V. Brewer, $8.50; G. A. Britton, $3; F. Broughton, $11; F. G. Brown, $48.50; B. Brynildsen, $19.92; Burrill Bros., $2.25; J. Callander, $121; D. S. Cameron, $26.50; R. N. Campbell, $54; J. Cargill, $3.75; T. Carney, $517.19; P. Carr, $21.50; G. A. Carter, $14; H. Carter, $15; J. A. Catherwood, $13; J. W. Chadwick, $18; J. Clarke, $6.03; N. N. Clarke, $5.25; S. Cline, $138.95; P. Close, $11.50; Clugston & Barton, $21.75; J. G. Cody, 50c.; R. S. Colcloughs, $68.25; M. J. Condon, $12.50; R. S. W. Corbett, $1; T. Dames, $19.25; A. Darlington, $2.50; J. R. Davies, $2.75; H. B. Dawley, $70; T. Deasey, $5; Deep Cove Trading Co., $5.75; L. P. DeLair, $11.75; Denmark & Burton, $18.50; W. J. Devitt, $10.25; G. Dillabough, $2.50; M. C. Donaldson, $70.49; W. Dowling, $20.69; A. Dryden, $37.50; G. J. Duncan, $44.25; W. A. S. Duncan, $20.25; W. J. Dunseith, $35.75; J. P. Eggleshaw, $21.50; E. Elliott, $11.75; Ellis & Brown, $10; F. N. Emmott, $14; C. F. Evans, $27.50; R. T. Evans, $12.50; E. Evenson, $167.25; A. Fairbairn, $29.75; G. Fennell, 75c.; H. Finley, $8.45; J. A. Flett, Ltd., $175; F. I. Fraser, $137.50; J. A. Fraser, 50c.; L. C. Fraser, $286.75; T. W. Fry, $281.37; F. Fryer, $32.50; E. Gammon, $22.75; A. H. Gatt, 50c.; E. C. Gibbs, $5.50; R. Gibson, $26; W. H. Gibson, $1.50; J. Gody, 50c.; W. B. Goldie, $34.50;		
	Carried forward	$ 24,502 86	$ 110,912 56

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF FINANCE—*Continued.*		
104.	SURVEYOR OF TAXES—*Continued.*		
	Brought forward	$ 24,502 86	$ 110,912 56
	Expenses—*Continued.*		
	Commission on Collection of Revenue—*Continued.*		
	C. H. Goodall, $4; M. Gorman, $30.25; M. A. Gray, $5.50; G. H. Greenwood, $32; W. Greenwood, $115.04; J. Gregg, $142.25; G. F. Guernsey, $57.75; A. Gueulette, $16; G. M. Gunn, $36.25; W. H. Hadley, $27; E. A. Halliday, $12.50; W. M. Halliday, $2; S. K. Hansen, $1.50; Harkley & Haywood, $136; Harris & Smith, $49.50; H. E. Hawking, $7; D. A. Hazelton, $11; F. Heckmiller, $43.75; J. C. Hector, $4.75; L. Hellier, $4; W. R. Henley, $66.50; T. Higginbottom, $21.50; J. D. Hill, $7; W. Hilton, $36.75; Hilton & Webster, $27.25; A. R. Horne, $36; J. E. Houghton, $11.50; Hudson's Bay Co., $26.50; H. Hughes, $12; W. F. Islip, $16.50; P. S. Jack, $1,189.69; R. R. Jeffrey, $7.50; J. Johnson, $5; J. F. Johnson, $62; A. G. Johnston, $49.03; J. F. Johnston, $34.25; R. T. Johnstone, $5.25; F. C. Jones, $15; P. W. Jupp, $44.50; J. Kelly, $49; J. Kendall, $2.50; L. H. Kenney, $27.15; C. Kerr, $33; F. F. Ketchum, $51.33; G. F. Killam, $15.50; W. C. Kiltz, $15.75; A. Kingsley, $6.50; T. J. Kirkpatrick, $56.11; J. B. Knowles, $16.50; W. H. Laird, $27.70; R. Lamont, $43.30; M. Larsen, $7.20; S. T. Larsen, $43.37; R. G. Lawrence, $19.25; G. Leece, $48.11; W. N. Lenfesty, $215; O. Lifton, $24.25; C. W. Long, $10; W. Lowden, $19.72; W. J. Lutley, $2.75; A. M. Lyon, $6; T. W. Lytle, $4.60; R. C. Macdonald, $13.67; A. G. Mackie, $3.25; S. Marshall, $16.50; C. H. Martin, $13.50; Martin, Finlayson & Mather, Ltd., $55.50; A. D. Matheson, $69.20; R. Matthews, $26; M. W. Marvin, $7.50; J. Mead, $11.75; Menzies Hardware Co., $113.75; E. Mills, $24.75; R. F. Mills, $22; A. C. Minty, $28; A. H. Mogridge, $13.20; O. J. Monk, $25.50; W. Morgan, $30.02; H. B. Morley & Co., $78; G. C. Mortimer, $167.25; W. M. Mouat, $1; L. Mulvany, $5; A. C. Murray, $8.75; J. A. Murray, $11.75; A. D. I. Mustart, $116; D. MacFayden, $3.50; R. MacKinley, $30; A. D. MacLean, $5.50; A. McCallum, $6; W. McCrea, $89.25; T. H. McCubbin, $59.55; N. A. McDiarmid, $6.75; H. J. McDougall, $38.75; W. J. McIntosh, $19; H. McLaren, $29; McLennan, McFeely & Co., Ltd., $92.25; H. P. McMartin, $59; R. E. McMinn, $9.50; C. A. McNaughton, $16.12; A. McNeill, $50.75; T. McNeish, $173.15; G. G. W. Nicholson, $4.75; F. J. Nixon, $47.50; A. M. Noble, $28; R. W. Northey, $110.01; Owen & McCallum, $12; Paine Hardware, Ltd., $14.25; J. Palmer, $9; E. Patterson, $14.50; W. J. Parham, $31.97; J. A. Pauline, $1; A. M. Pearman, $36; L. R. Pearse, $15.50; S. S. Peat, $7.39; Peden Bros., $181.25; J. Pelly, $97; P. Pentecost, $21.50; S. Percival, 25c.; C. C. Perry, $7; J. D. Pettigrew, $10; A. Philip, $5.25; C. Piercy, $22.50; Plimley & Ritchie, $6.50; R. P. Ponder, $24.84; E. Pope, $60.75; D. G. Poole, $30.25; J. A. Porter, $14; E. G. Prior & Co., Ltd., $48.75; R. Pritchard, $7; Quathiaski Canning Co., Ltd., $3.50; H. M. Ramsay, $10; L. Raper, $36.90; J. Renner, $44.25; E. H. Robinson, $25.87; T. H. Rotherham, $74.27; J. Russell, $12; A. Saint, $2; S. S. Saunders, $5; J. P. Scarlett, $51.10; W. Scott, $53.75; S. Service, $10.50; Share Bros., $57.75; G. C. Sharpe, $4.50; W. J. Shields, $9; G. Shipman, $10.50; H. J. Simpson, $14; W. Simpson, $33.10; L. G. Skinner, $8.75; P. R. Skinner, $20.04; C. H. Smith, $13.99; J. M. Smith, $23.25; W. H. Snell, $2.50; A. E. Spall, $21.50; T. F. Speed, $152.10; D. Spencer, Ltd., $26.50; F. Squires, $5.25; G. Stanfield, $13.50; H. Stege, $55.30; P. Stewart, $14.75; W. B. Stewart, $19; A. Strang, $13.75; A. W. Stone, $12; R. J. Sutherland, $31; A. C. Sutton, $4; A. R. Taylor, $2.50; G. Taylor, $8.75; J. Taylor, $13.75;		
	Carried forward	$ 24,502 86	$ 110,912 56

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF FINANCE—*Continued.*		
104.	SURVEYOR OF TAXES—*Continued.*		
	Brought forward	$ 24,502 86	$ 110,912 56
	Expenses—*Continued.*		
	Commission on Collection of Revenue—*Continued.*		
	E. F. Thomas, $10.50; W. W. Thomas, $385.44; I. Thompson, $11.97; T. J. Thorp, $135.22; Thulin Bros., $18.25; E. D. Thwaites, $22.25; Tisdall's, Ltd., $322.50; H. Twidle, $11.07; A. H. Tyson, $40.80; J. Urquhart, $8.50; E. A. Vachon, $62; F. Varney, $6.50; H. H. Vickers, $1.25; Victoria Sporting Goods Co., $60.75; A. G. Waddell, $44.25; J. Walsh, $70.25; E. Walter, $884.82; F. W. Warren, $13.50; A. J. Watkinson, $5.75; Watson & Thomas Hardware Co., $1.25; R. Webster, $15.50; E. Weddell, $121.25; A. K. Westland, $49.25; O. Wheeler, $2.52; S. C. White, $4.42; H. Williams, $23.25; J. A. Williams, $90.25; E. J. Wilson, $21.25; A. Wimbles, $8.50; W. Winn, $14.75; J. E. Winterbottom, $11.75; H. N. Wood, $31.25; W. Wray, $5.75; J. M. Wright, $55.25	13,034 28	
	Special Auditors:		
	Salaries:		
	G. B. Acheson $1,400 00 — S. M. Oliver $ 372 58 C. R. Brown 2,040 00 — S. V. Roberts 2,275 00 W. J. Hagger 1,920 00 — W. Vesey ... 620 00 N. Hess ... 1,630 65 — W. C. H. Wilson 3,000 00 H. J. Jackman 401 61 — L. S. V. York 1,920 00 A. Mar .... 92 62 Clerk .....H. V. Mills ...$900 00 Stenographer .....P. Hayman .. 111 43	$ 16,683 89	
	Expenses:		
	Office Supplies, etc.:		
	B.C. Telephone Co., Ltd., $3.46; Dewey Publishing Co., $5; Industrial & Educational Publishing Co., Ltd., $5; King's Printer, $437.05; Macey-Abell Co., Ltd., $88	538 51	
	Travelling Expenses:		
	C. R. Brown, $231.92; W. Hagger, $49.15; N. Hess, $14.56; H. Jackson, $9.05; S. V. Roberts, $546.81; W. C. H. Wilson, $501.25	1,352 74	
		18,575 14	
	Courts of Appeal:		
	J. R. Brown, $58.35; S. C. Burton, $195; E. J. Chambers, $79.60; H. N. Coursier, $75; E. A. Crease, $20; H. V. Dartt, $10; D. Downie, $305; J. Dunlop, $12.10; J. Dybhavn, $45; J. Eggert, $10; T. S. Futcher, $598.50; D. Graham, $136.40; R. W. Haggen, $592.10; G. F. Havers, $40; F. W. Howay, $80; W. Lakeland, $91.20; S. T. Larsen, $62.05; A. B. Macdonald, $136.60; W. S. Simpson, $10; H. R. Townsend, $22.25; F. Webb, $60; H. F. Wilmot, $20.65; Armstrong Advertiser, $2.52; Ashcroft Journal, $5.40; Burton Institute, $1; Cariboo Observer, $23.25; Chilliwack Progress, $7.80; Cowichan Leader P. & P. Co., Ltd., $3.72; Cranbrook Courier, $10.63; Cumberland Islander, $4; Daily Nanaimo Free Press, $23.04; A. W. Farquhar, $18; Fernie Free Press, $8.68; E. C. Findley, $6; Gazette, Hammond, $1.05; Golden Star Publishing Co., $7.40; Hall & O'Halloran, $50; Kamloops Telegram, $3.60; King's Printer, $70.50; Kootenaian, $3.36; P. J. Mackay, $15.75; Merritt Herald, $3; News P. & P. Co., Nelson, $2.37; News P. & P. Co., Prince Rupert, $3.30; Penticton Herald, $8.90; Port Alberni News, $2.52; Princeton Star, $1.95; Revelstoke Review Publishing Co., Ltd., $3.84; Sidney & Islands Review, $3.12; Vancouver Daily Province, $6.45; Vancouver Daily Sun, $9.60	2,970 55	
	Timber Cruising, Equalization, etc.:		
	King's Printer, $94.90; D. A. McPhee, $300	394 90	
	Total expenditure, Surveyor of Taxes		59,477 73
	Carried forward		$ 170,390 29

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF FINANCE—*Continued.*		
105.	BUREAU OF INFORMATION.		
	Brought forward		$ 170,390 29
	Salaries ($3,368.70):		
	Secretary ..... H. W. Hart	$ 1,500 00	
	Clerk ..... F. Mellor	1,392 00	
	Stenographer ..... A. E. George	476 70	
		$ 3,368 70	
	Expenses ($8,126.56):		
	Office Supplies, etc.: B.C. Telephone Co., Ltd., $9.45; Canadian Annual Review, Ltd., $6.29; Canadian National Railways, $39.34; C.P.R. Telegraphs, $2.50; Dominion Express Co., $25.26; E. & N. Railway Co., $10.18; H. Fleming, $11.25; W. S. Fraser & Co., 80c.; G.N.W. Telegraph Co., $8.45; E. S. Harris, 50c.; King's Printer, $211.25; Land Settlement Board, $175; Macey-Abell Co., Ltd., $70; postage, $216.70; Progress Publishing Co., Ltd., $1.50; Reliable Transfer Co., 50c.; Times P. & P. Co., Ltd., $12; Trail News, $2; Vancouver Daily Province, $6; Western Guide, $2; J. Whitaker & Sons, Ltd., $1.92; Wrigley Directories, $10..	822 89	
	Pamphlets, Editing, and Sundry Expenses: B.C. Financial Times, $102; B.C. Veterans' Weekly, $1,000; Farm & Ranch Review, Ltd., $126; Fleming Bros., $4.50; H. W. Hart, $313.65; Heaton's Agency, $4,846.62; King's Printer, $161.45; Lands Department, $167.25; Motor Travel, $75; Reliable Transfer Co., 75c.; Resources Publishing Co., $60; "Scarlet & Gold," $400; Times P. & P. Co., Ltd., $46.45	7,303 67	
	Total expenditure, Bureau of Information		11,495 26
106.	AGENT-GENERAL'S OFFICE, LONDON, ENGLAND.		
	Salaries ($17,259.26):		
	Agent-General ..... F. C. Wade	$ 7,999 92	
	Secretary ..... W. A. Blair	3,900 00	
	Acting-Secretary ..... T. Walker	810 00	
	Private Secretary ..... M. Chrimes	1,500 00	
	Pay-lists ..... Office Staff	3,049 34	
		$ 17,259 26	
	Expenses ($7,495.69):		
	Office Supplies, etc.: Ashcroft Journal, $5; Bradbury, Agnew & Co., $7.28; British Columbian, $11.60; Canadian Annual Review, Ltd., $12.55; Canadian Bank of Commerce, $20.21; Canadian Facts Publishing Co., $3.10; Canadian Gazette, $4.73; Cariboo Observer, $2; Charing Cross Hospital, $5.09; Colonist P. & P. Co., Ltd., $11.74; Cooke's Mimeograph Co., Ltd., $7.28; Cowichan Leader, $2; Creston Review, $2; E. Dent & Co., $5.09; Department of Printing and Stationery, Ottawa, $4; Dominion Express Co., $10.81; Empire Publishing Co., $7; English Speaking Union, $4.85; Globe Wernicke Co., $38.55; Gray Electric Co., $5.82; Harbour & Shipping, $4; Heaton's Agency, $2.11; Industrial and Educational Publishing Co., $2; Kelly's Directories, Ltd., $10.91; King George's Fund for Sailors, $10.18; King's Printer, $22.54; W. Knightsmith, $10.19; Ladysmith Chronicle, $2; Lamb's International Guide, $7.28; London Council for Promotion of Public Morality, $4.85; London Library, $30.56; A. Mansford & Sons, Ltd., $454.87; Marconi's Wireless Co., $99.87; Mash & Austin, Ltd., $6.06;		
	Carried forward	$ 17,259 26	$ 181,885 55

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
106.	AGENT-GENERAL'S OFFICE, LONDON, ENGLAND—*Continued.*			
	Brought forward	$ 17,259 26		$ 181,885 55
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	Nanaimo Daily Herald, $11.11; National Bank, $11.77; News Publishing Co., Nelson, $6; Officers' Association, $9.70; Penticton Herald, $2.50; Perry's Directory, $9.09; petty cash, $1,604.83; Postmaster-General, $145.92; Price, Waterhouse & Co., $61.11; H. Rees, Ltd., $25.24; Royal Agricultural Society, $4.85; Royal Colonial Institute, $9.70; Royal National Life Boat Institution, $5.09; Sell's Directory, $9.70; Sellwood, Micklewright & Toupin, Ltd., $15.28; W. H. Smith & Son, $75.83; F. Stewart & Co., $243.59; Straker Bros., $74.27; Times P. & P. Co., Ltd., $6; Underwood Typewriter Co., Ltd., $16.98; Vancouver Daily Province, $14; Vancouver Daily Sun, $14.74; Vancouver Oil & Mining Record, $2; Vernon News, $2.50; T. C. Wallis, $38.19; Waterlow & Sons, Ltd., $354.48; Western Union Telegraph Co., $382.58; Wrigley Directories, Ltd., $260	4,255 17		
	Allowance, Travelling and other Expenses: W. L. Griffith, $10.18; A. L. Hamilton, $121.25; C. F. Murray, $15.28; P. E. H. Woolf, $19.89; F. C. Wade, $1,135.02	1,301 62		
	Advertising: Can. Newspaper Co., $868.12; Canadian Gazette, $361.61; Carter, Paterson & Co., Ltd., $5.47; The Colonizer, $36.37; Daimler Hire Co., $15.22; Dominion Express Co., $13.28; M. Durham, $198.85; Empire Mail, $71.11; "Ex-Service Man," $29.10; Facts Publishing Co., $6.73; Field Press, Ltd., $242.50; The Financier, Ltd., $6.06; Gaumont, Co., Ltd., $30.56; General Press Cutting Association, Ltd., $30.56; A. Jenner, $5.34; London and Provincial Directory, $7.64; W. Macdonald, $5.09; T. Meadows, $13.34; Pitt & Scott, $30.33; W. Potter & Sons, $16.61; Scrutton & Sons, $11.50; Shaftesbury Foundry, Ltd., $31.18; W. H. Smith & Sons, $27.44; Straker Bros., Ltd., $44.26; The Times, $14.49; Topical Press Agency, $12.73	2,135 49		
		$ 24,951 54		
	By cash	196 59		
			$ 24,754 95	
	British Columbia House ($54,256.24):			
	Interest on Mortgage: Holland, Hannen & Cubitts, Ltd.	$ 12,125 00		
	Ground-rent: Commissioners of H. M. Woods	9,093 75		
	Rates and Taxes: Westminster City Council	16,312 90		
	Income-tax: Collector	6,174 98		
	Maintenance and Repairs to Building: A. Burr, $403.46; Cardinal & Harford, $2.55; Civil Service Co-operative Association, $29.89; Derry & Toms, $75.74; J. Doe, $14.55; Foreman, $4.85; Galsworthy, Ltd., $98.68; W. H. Gaze & Sons, Ltd., $21.40; W. A. Graham, $53.35; J. Gray, Ltd., $49.23; Holland & Hannen, $275.36; LeGrand,			
	Carried forward	$ 43,706 63	$ 24,754 95	$ 181,885 55

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
106.	AGENT-GENERAL'S OFFICE, LONDON, ENGLAND—*Continued.*			
	Brought forward	$ 43,706 63	$ 24,754 95	$ 181,885 55
	British Columbia House—*Continued.*			
	Maintenance and Repairs to Building—*Continued.* Sutcliffe & Gell, Ltd., $217.97; J. A. Lewis & Son, $73.35; B. Luis, $111.55; Maple & Co., Ltd., $442.24; Rayleigh, Ltd., $4.85; Selfridge & Co., Ltd., $13.16; T. Stevens, $4,696.35; L. Sunderland & Co., $131.62; S. E. Turner, $67.90; Waring & Gillow, Ltd., $52.71; J. Warner & Sons, $211.58; Waygood-Otis, Ltd., $300.32; W. Whiteley, Ltd., $144.60;	7,497 26		
	Insurance: Guardian Assurance Co., Ltd., $63.01; Prudential Assurance Co., Ltd., $218.25; Sun Insurance Office, $23.64	304 90		
	Fuel and Light: Galsworthy & Co., $101.84; Gas, Light & Coke Co., Ltd., $55.75; A. Levy & Son, $234.44; Locket & Judkins, $1,701.55; St. James & Pall Mall Electric Co., Ltd., $1,189.54	3,283 12		
	Cleaning and Janitors' Supplies: E. Clarke, $19.40; L. & S.E. Packing Co., $306.52; pay-lists, $4,307.75	4,633 67		
	Contingencies: Blake & Redden, $40.74; A. Burr, $1,008.36; Changeable Sign Co., Ltd., $16.47; Collector of Customs, $2.19; H. S. Holt, $36.38; Mash & Austin, Ltd., $4.85; C. Straker & Son, $32.74	1,141 73		
		$ 60,567 31		
	Less deductions account income-tax	6,311 07		
			54,256 24	
	Total expenditure, Agent-General's Office			79,011 19
	GOVERNMENT AGENTS AND ASSESSORS, ETC.			
107.	ALBERNI AGENCY.			
	Salaries ($6,426.96): Agent and Assessor ....A. G. Freeze	$2,019 96		
	Clerk and Registrar ....A. W. Lee	1,500 00		
	Clerks: F. S. Burrell..$200 00 A. G. Roff ..$1,452 00	1,652 00		
	Stenographer ....E. G. Croll	715 00		
	Janitor ....J. R. Packard	540 00		
		$ 6,426 96		
	Expenses ($1,422.80): Alberni City, $28.73; Alberni Garage, $9; C. F. Bishop & Son, $2.10; B.C. Telephone Co., Ltd., $54; J. J. Burke, $14; Colonist Printing & Publishing Co., Ltd., $37.50; Dominion of Canada Guarantee & Accident Insurance Co., $8.75; Dominion Express Co., $17.90; Dominion Government Telegraphs, $2.15; King's Printer, $401.56; A. A. Lynn, $10.99; W. G. McIntyre, $13.15; Paine, McIntyre & Dopson, $6.55; Port Alberni Printing & Publishing Co., Ltd., $285.08; postage, $333; Reliable Transfer Co., 50c.; Royal Bank of Canada, $3.11; G. Shead, $100.50; Smith & Champion, $86.08; Thompson's General Store, $3.20; Wa Lee, $4.95	1,422 80		
	Total expenditure, Alberni Agency		$ 7,849 76	
	Carried forward		$ 7,849 76	$ 260,896 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF FINANCE—*Continued.*		
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*		
	Brought forward	$ 7,849 76	$ 260,896 74
108.	ANYOX AGENCY.		
	Salaries ($1,373.22):		
	Agent ..... H. Andrew	$ 450 00	
	Clerks:		
	C. D. Follis ...$122 90 C. I. McDonald $210 00	332 90	
	Clerk and Stenographer .... E. E. Russ	590 32	
		$ 1,373 22	
	Expenses ($1,355.21):		
	Anyox Hotel, $567; Canadian Bank of Commerce, $5.20; Canadian Express Co., 95c.; Chow Way, $9.20; Dominion of Canada Guarantee & Accident Insurance Co., $5; Dominion Express Co., 45c.; Dominion Government Telegraph Service, $58.86; Granby Consolidated Mining, Smelting & Power Co., Ltd., $356.10; W. B. Henderson, 25c.; T. Holman, $2.75; King's Printer, $198.95; W. Kong, $5; postage, $85.50; Sentry Manufacturing Co., Ltd., $35; W. Yen, $25	1,355 21	
	Total expenditure, Anyox Agency		2,728 43
109.	ASHCROFT AGENCY.		
	Salaries ($4,612.52):		
	Agent ..... J. S. Alexander	$ 1,800 00	
	Assessor ..... W. C. Adam	1,277 42	
	Clerk ..... G. E. Kenning	748 00	
	Clerk and Stenographer .... W. T. Sandilands	487 10	
	Janitor ..... J. White	300 00	
		$ 4,612 52	
	Expenses ($2,660.69):		
	W. C. Adam, $170.05; Ashcroft Journal, $143.28; Ashcroft Water, Electric & Improvement Co., $72.20; B.C. Express Co., $240; Burroughs Adding Machine Co. of Canada, Ltd., $315.07; C.P.R. Co., $1.20; Dominion of Canada Guarantee & Accident Insurance Co., $7.50; Dominion Express Co., $20.15; Dominion Government Telegraph Service, $56.42; Drewry & Cornwall, $23.45; M. Dumond, $65.19; F. Elliott, $12.75; J. Haddock, $455.70; Harvey-Bailey, Ltd., $148.60; W. M. Huston, $1.50; G. E. Kenning, $16.05; King's Printer, $283.76; Lands Department, $32; Macey-Abell Co., Ltd., $40; G. Munro, $15.22; postage, $190; Sentry Manufacturing Co., Ltd., $35; R. Stoddart, $104; Tat Sing, $8.80; J. J. Ting & Co., $3; United Typewriter Co., $171; Vancouver Daily Province, $28.80	2,660 69	
	Total expenditure, Ashcroft Agency		7,273 21
110.	ATLIN AGENCY.		
	Salaries ($7,208):		
	Agent ..... J. A. Fraser	$ 2,400 00	
	Mining Recorder ..... W. G. Paxton	1,800 00	
	Clerk ..... C. R. Fraser	1,365 00	
	Carried forward	$ 5,565 00	$ 17,851 40 $ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
110.	ATLIN AGENCY—*Continued.*			
	Brought forward	$ 5,565 00	$ 17,851 40	$ 260,896 74
	Salaries—*Continued.*			
	Stenographers:			
	J. Forsyth ....$558 00 G. B. Rineberg $465 00	1,023 00		
	Janitor .....F. E. Litle	620 00		
		$ 7,208 00		
	Expenses ($4,673.42):			
	Anderson & Bone (Indians), $110.25; Dr. Bean (Indian), $28.90; Dominion of Canada Guarantee & Accident Insurance Co., $12.50; Dominion Government Telegraph Service, $294.55; J. Eggert, $35; I. Forsyth, $91.65; J. A. Fraser, $21; C. E. Gilmore, $104; D. L. Hall, $728; Hudson's Bay Co., $48.92; Juneau Jack (Indian), $74.50; J. B. Kershaw, $637.74; King's Printer, $199.47; F. E. Litle, $63.15; F. H. Mobley & Co., Ltd., $2.50; M. J. McDonald, $187.80; R. McKee, $10; C. W. A. Nevile, $240; W. G. Paxton, $4; E. W. Pillman & Co., $2.80; Portland Canal News, $68.04; postage, $152; J. Reid, $175; Roxborough Bros., $32; L. Schulz, $140.40; Sentry Manufacturing Co., Ltd., $35; E. Spencer, $27; R. J. Wallace, $5; White Pass & Yukon Route, $23.35; J. Williams, $586.50; T. Williams & "Shorty" Jackson, $108.50	4,249 52		
	Overhauling and Repairing Government Launch:			
	H. Davis, $3.25; C. R. Fraser, $15; P. Gabrio, $9.50; C. E. Gilmore, $148.75; J. B. Kershaw, $75.25; F. E. Litle, $169.50; L. Schulz, $2.65	423 90		
	Total expenditure, Atlin Agency		11,881 42	
111.	BARKERVILLE SUB-AGENCY.			
	Salaries ($2,740):			
	Gold Commissioner and Mining Recorder .....L. A. Dodd	$ 1,900 00		
	Stenographer .....A. C. Dodd	840 00		
		$ 2,740 00		
	Expenses ($1,805.40):			
	J. C. Catlett, $12.50; Fook Chung, $15.71; C. E. Crawford, $308.33; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Government Telegraph Service, $15.19; W. S. Fraser & Co., Ltd., $17.82; F. Harper, $169.22; Inland Express Co., $2.90; King's Printer, $127.17; L. A. Muller, $25.70; W. F. McCarthy, $387; L. M. McKinnon, $225; postage, $86; T. Quan, $22.50; Stuart Lake Shingle Co., $275.36; A. Wallace, $112.50	1,805 40		
	Total expenditure, Barkerville Sub-agency		4,545 40	
112.	CLINTON AGENCY.			
	Salaries ($4,447.26):			
	Agent .....G. Milburn	$ 2,100 00		
	Clerk .....R. A. Dorrell	1,500 00		
	Stenographers:			
	C. D. Barton ..$457.26 E. F. Thorp ..$390 00	847 26		
	Carried forward	$ 4,447 26	$ 34,278 22	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
112.	CLINTON AGENCY—*Continued.*			
	Brought forward	$ 4,447 26	$ 34,278 22	$ 260,896 74
	Expenses ($1,809.35): Bank of Montreal, 15c.; T. Barton, Jr., $4; J. Botterill, $120; S. S. Boyd, $3.28; E. Dougherty, $105; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Government Telegraph Service, $45.88; M. Dumond, $100.64; R. Fraser, $222.49; Imperial Oil, Ltd., $28.44; Inland Express Co., $5.40; F. Jeune & Bro., Ltd., $10.25; O. L. Johnson, $5; G. King, $72.50; J. King, $136.50; King's Printer, $233.99; Lands Department, $37.75; G. Milburn, $1.50; R. M. Moore & Co., $4.52; B. Olson, $105; P.G.E. Railway, $11.61; M. Pigeon, $34.50; postage, $214.90; A. E. Malacord, $3.20; J. H. Rush, $120; Sentry Manufacturing Co., $35; United Typewriter Co., Ltd., $145.35	1,809 35		
	Total expenditure, Clinton Agency		6,256 61	
113.	CRANBROOK AGENCY.			
	Salaries ($11,290.32):			
	Agent ..... N. A. Wallinger	$ 2,340 00		
	Assessor ..... W. Guthrie	1,719 96		
	Clerk and Registrar ..... A. F. Crowe	1,500 00		
	Clerks:			
	D. A. Dallas $ 613 55	E. M. McPhee. $180 00		
	G. Higgins 982 50	B. S. Simpson. 135 00		
	J. E. Kennedy 1,539 96	F. A. Small 419 35	3,877 86	
	Stenographer ..... G. Doris	780 00		
	Janitor ..... E. B. Offin	1,080 00		
		$ 11,290 32		
	Expenses ($4,965.17): J. H. Barrett, $29.75; Beattie-Noble, Ltd., $16.10; R. Benbow, $35; Burroughs Adding Machine Co., Ltd., $362; C.P.R. Telegraphs, $29.49; City Transfer & Warehouse Co., $342.56; Colonist P. & P. Co., Ltd., $37.50; City of Cranbrook, $122.20; Cranbrook Courier, $516.24; Cranbrook Elec. Light Co., $99.80; Cranbrook Elec. Supply Co., $1; Cranbrook Exchange, $7.20; Cranbrook Sash & Door Co., Ltd., $45.88; Dominion of Canada Guarantee & Accident Insurance Co., $16.25; Dominion Express Co., $76.30; Fink Mercantile Co., Ltd., $30; K. Green, $81.25; W. Guthrie, $249.85; M. B. Heath, $308; H. Hern, $45; L. J. Herniman, $13.50; J. F. Hutchcroft, $236.15; Jones & Doris, $296.49; King's Printer, $584.69; Kootenay Telephone Lines, Ltd., $127.65; W. J. Lamb, $2; C. Manners, $98; J. Manning, $33.65; M. Morrison, $32; R. S. McNeil, $13; Mrs. E. B. Offin, $9; F. Parks & Co., $51.40; Patmore Bros., $94.95; postage, $618.71; Remington Typewriter Co., Ltd., $269.70; Sanitary Supply, Ltd., $31.51; A. Selander, $30; N. A. Wallinger, $24.40; W. H. Wilson, $2.50	5,020 67		
		$ 16,310 99		
	By cash	55 50		
	Total expenditure, Cranbrook Agency		16,255 49	
	Carried forward		$ 56,790 32	$ 260,896 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF FINANCE—*Continued.*		
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*		
	Brought forward	$ 56,790 32	$ 260,896 74
114.	CUMBERLAND AGENCY.		
	Salaries ($6,676.98):		
	Agent and Collector ..... J. Baird	$ 2,100 00	
	Assessor ..... A. Aitken (7 mos., 14 days)	1,117 76	
	Clerks:		
	A. Aitken (4 mos., 17 days) $ 527 58 — T. W. Jeffereys $ 83 20		
	W. J. Fraser. 173 33 — H. Norris 609 60		
	C. H. Grant.. 1,500 00 — W. Tull 175 19		
	J. J. Weir 390 32	3,459 22	
		$ 6,676 98	
	Expenses ($1,885.92):		
	A. Aitken, $241.55; J. Baird, $13.25; B.C. Telephone Co., Ltd., $63.65; Colonist P. & P. Co., Ltd., $76.50; Comox Argus, $280.20; Cumberland Electric Light Co., $18.63; Cumberland-Union Water Works Co., $14.75; Dominion of Canada Guarantee & Accident Insurance Co., $7.50; Dominion Express Co., $29.65; Dominion Government Telegraph Service, $7.61; M. Hoffheins, $6; King's Printer, $362.67; S. Leiser & Co., $2.15; R. E. Lodwick, $38.25; S. Marshall, $9; Mumford & Walton, $1.20; J. W. McLellan, $8; W. McLellan, $6.55; N. McLeod, $22.05; W. H. L. Norris, $47; H. Parkinson, $130; postage, $419.81; Royston Lumber Co., $18; I. Shouldice, $12; J. Sutherland, 40c.; C. H. Tarbell, $4.70; United Typewriter Co., Ltd., $13.85; R. H. White, $22.50; W. C. White, $8.50	1,885 92	
	Total expenditure, Cumberland Agency		8,562 90
115.	DUNCAN AGENCY.		
	Salaries ($5,004.59):		
	Agent and Collector ..... J. Maitland-Dougall	$ 2,020 00	
	Clerks:		
	J. Flett ..... $1,192 00 — J. E. Stilwell .. $922 59	2,114 59	
	Clerk and Stenographer .... M. Herd	870 00	
		$ 5,004 59	
	Expenses ($1,218.32):		
	C. H. Armour, $26.61; Bank of Montreal, $8.99; J. Boak, $93.75; B.C. Telephone Co., Ltd., $66.40; C.P.R. Telegraphs, 73c.; Cowichan Leader P. & P. Co., Ltd., $165.84; Cowichan Merchants, Ltd., $10.05; City of Duncan, $41.33; Dominion of Canada Guarantee & Accident Insurance Co., $5; A. Forrester, $233.35; H. W. Halpenny, 80c.; W. L. Henderson, $47.50; King's Printer, $209.02; postage, $255; J. Shirras, $47.20; J. H. Smith, Ltd., $6.75	1,218 32	
	Total expenditure, Duncan Agency		6,222 91
116.	FAIRVIEW AGENCY.		
	Salaries ($5,425.80):		
	Agent ..... J. R. Brown	$ 2,100 00	
	Assessor ..... S. T. Larsen	1,200 00	
	Clerks:		
	R. S. Atkins.. $1,500 00 — H. C. McGuffie. $225 80		
	W. C. Bate ... 200 00 — H. Warner 200 00	2,125 80	
	Carried forward	$ 5,425 80	$ 71,576 13 $ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
116.	FAIRVIEW AGENCY—*Continued.*			
	Brought forward	$ 5,425 80	$ 71,576 13	$ 260,896 74
	Expenses ($2,272.44) : D. Braithwaite, $8.75; J. R. Brown, $317.30; D. A. Carmichael, $27; A. Dalrymple, $56.50; Dominion of Canada Guarantee & Accident Insurance Co., $5; Dominion Government Telegraph Service, $36.27; J. Graham, $262.50; H. & K. Cold Store Co., $25; Harrison & Taylor, $27.10; A. S. Hatfield, $3.30; L. Hozier, $64.50; King's Printer, $182.89; S. T. Larsen, $526.55; J. P. McCuddy, $44; D. M. McDougall, $20; Penticton Hardware Co., $11.74; Penticton Herald, $140.89; postage, $288; Royal Typewriter Agency, $127.40; pay-list, $97.75	2,272 44		
	Total expenditure, Fairview Agency		7,698 24	
117.	FERNIE AGENCY.			
	Salaries ($6,912) :			
	Agent .....R. Hewat (2 weeks) ...	$ 87 50		
	Agent .....R. J. Stenson (11½ mos.)	2,012 50		
	Clerks :			
	A. Black .....$1,500 00 A. H. Watson $1,452 00	2,952 00		
	Stenographer .....R. Dicken	780 00		
	Janitor .....J. Johnston	1,080 00		
		$ 6,912 00		
	Expenses ($2,148.36) : M. A. Berigan, $1; C.P.R. Co., $25.54; Colonist P. & P. Co., Ltd., $75; Crow's Nest Pass Coal Co., Ltd., $458.90; Crow's Nest Trading Co., Ltd., $26.75; Currie Bros., $2.25; Dominion of Canada Guarantee & Accident Insurance Co., $6.90; Dominion Express Co., $28.40; Duthie Co., $173.20; Elk Lumber Co., Ltd., $22; Elk Valley Lumber Co., Ltd., $38.50; City of Fernie, $119.70; J. Johnston, $15.45; King's Printer, $139.37; Kootenay Telephone Lines, Ltd., $153.85; Longden Electric Store, $8.50; McGladrey Bros., $6.50; postage, $165; J. D. Quail, $5.30; Remington Typewriter Co., Ltd., $8; H. M. Sparks, $10; R. J. Stenson, $409.90; Trites-Wood Co., Ltd., $62; Mrs. J. Turner, $6; C. M. Walde, $12.35; L. Wray, $168	2,148 36		
	Total expenditure, Fernie Agency		9,060 36	
118.	FORT FRASER AGENCY.			
	Salaries ($3,080) :			
	Agent .....F. Fraser	$ 1,720 00		
	Clerk .....J. R. Tannock	1,332 00		
	Stenographer .....H. Campbell	28 00		
		$ 3,080 00		
	Expenses ($1,406.26) : A. P. Anderson, $125.90; G. S. Belsham, Jr., $10.20; F. E. Brooks, $31.20; W. Bunting, $50.05; S. Coop, $7.50; Dominion of Canada Guarantee & Accident Insurance Co., $5; Dominion Government Telegraph Service, $50.30; M. Francois, $12; Fred Fraser, $181.40; Gayer & Connelly, $4.85; A. Goodwin, $7.50; W. G. Grimshire, $7.75; D. C. Hagerdon,			
	Carried forward	$ 3,080 00	$ 88,334 73	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
118.	FORT FRASER AGENCY—*Continued.*			
	Brought forward	$ 3,080 00	$ 88,334 73	$ 260,896 74
	Expenses—*Continued.* $9.75; King's Printer, $195.41; Lands Department, $176; Leith Bros., $6; E. A. Mitchell, $3.75; W. J. McAllan, $19.50; R. C. McCorkell, $4.90; C. McHenry, $20; A. G. Nachbar, $7.65; Nechako Chronicle, $6; Northern Hardware Co., $28.75; postage, $200; W. Ray, $15.80; Royal Bank of Canada, $16.05; T. P. Smithers, $15; P. Storrings, $1.50; C. L. Stuart, $122.20; G. J. Sumner, $13.50; J. R. Tannock, $4.55; W. W. White, $30.80; G. Woolsey, $5; O. Woolsey, $10.50	1,406 26		
	Total expenditure, Fort Fraser Agency		4,486 26	
119.	FORT GEORGE AGENCY.			
	Salaries ($8,004.86):			
	Agent .....T. W. Herne	$ 2,100 00		
	Clerks:			
	J. Aitkin ....$1,332 00 J. D. Moore..$ 666 65			
	R. B. Carter.. 636 66 A. E. Roddis.. 1,392 00			
	A. Fisher 1,157 55	5,184 86		
	Janitor .....G. Jackland	720 00		
		$ 8,004 86		
	Expenses ($3,440.54): Bronger & Flynn, $757.61; J. A. Bruce Co., Ltd., $5.72; Canadian Express Co., $70.74; R. B. Carter, $58.10; Central Interior Printing Co., Ltd., $2.40; City Cartage & Transfer Co., 75c.; Colonist P. & P. Co., Ltd., $127.50; Dominion of Canada Guarantee & Accident Insurance Co., $7.50; Fort George and Alberta Telephone Co., Ltd., $60; Fort George Drug Co., $2; A. S. Gardner, $107; G.T.P. Telegraph Co., $115.72; Harper Gross Co., $8.50; T. W. Herne, $111.35; Hood's, Ltd., $2.15; Hudson's Bay Co., $150; F. Jeune & Bro., Ltd., $27.46; L. A. Johnson, $5; Lands Department, $193; King's Printer, $625.99; Leith Bros., $4.24; Morgan & Mellson, $71; M. C. McKay, $3.10; Northern Hardware Co., $49.70; Patmore Nursery Co., $2.05; postage, $338.20; Prince George City, $118.26; Prince George Drug Co., $4.55; C. C. Reid, $1.35; Rush Transfer & Storage Co., $6; W. Skinner, $3; G. B. Williams, 60c.; W. Winterton, $400	3,440 54		
	Total expenditure, Fort George Agency		11,445 40	
120.	GOLDEN AGENCY.			
	Salaries ($6,100.48):			
	Agent (7 mos.) .....J. Bulman	$ 1,225 00		
	Agent (5 mos.) .....G. E. Sanborn	790 00		
	Assessor (7 mos.) .....G. E. Sanborn	1,050 00		
	Deputy Assessor .....H. C. Moore	1,600 00		
	Clerk and Stenographer ....R. W. Melton	535 48		
	Janitor .....J. R. Linney	900 00		
	Carried forward	$ 6,100 48	$104,266 39	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
120.	GOLDEN AGENCY—*Continued.*			
	Brought forward	$ 6,100 48	$104,266 39	$ 260,896 74
	Expenses ($1,447) : C.P.R. Co., $8.39; Colonist P. & P. Co., $37.50; Dominion of Canada Guarantee & Accident Insurance Co., $10.24; Dominion Express Co., $36.15; Dominion Government Telegraphs, $68.35; Golden Light, Power & Water Co., $243; Golden Star Publishing Co., $143; A. C. Hamilton, $334.40; King's Printer, $237.80; Lefontaine Bros., $2.50; Lands Department, $10; J. R. Linney, $3.35; R. W. Melton, $37.75; postage, $180; D. R. Rolston, Ltd., $33.55; G. Rury, $4.85; Taylor-Forbes Co., Ltd., $3.87; United Typewriter Co., Ltd., $23.10; C. A. Warren, $23.20; J. T. Wood, $6	1,447 00		
	Total expenditure, Golden Agency		7,547 48	
121.	GRAND FORKS AGENCY.			
	Salaries ($4,480) : Agent .....S. R. Almond	$ 2,020 00		
	Clerk .....C. Mudge	1,500 00		
	Janitor .....W. O. Easton	960 00		
		$ 4,480 00		
	Expenses ($1,005.62) : B.C. Telephone Co., $61.65; A. C. Burr, $4; C.P.R. Co., 50c.; City Cartage Co., $281.92; Dominion of Canada Guarantee & Accident Insurance Co., $3.75; Dominion Express Co., $6.25; Frache Bros., Ltd., $2.75; W. Frakes, $217; Grand Forks Corporation, $79.30; Grand Forks Transfer, $71.57; Jeff, Davis & Co., $5.75; F. Jeune & Bro., Ltd., $27.56; King's Printer, $94.37; Kwong Wing, $14.50; Manley's Hardware, $2.60; Miller & Gardner, $42.50; J. H. Mooyboer, $5.50; McLeod & Hodgson, Ltd., $8.65; postage, $71; F. Vidito, $4.50	1,005 62		
	Total expenditure, Grand Forks Agency		5,485 62	
122.	GREENWOOD AGENCY.			
	Salaries ($3,692) : Agent .....W. R. Dewdney	$ 2,020 00		
	Clerk and Janitor .....P. H. McCurrach	1,500 00		
	Janitor .....J. Adams	172 00		
		$ 3,692 00		
	Expenses ($1,117.93) : B.C. Telephone Co., $67.60; C.P.R. Co., $12.50; G. Clerf, $9.50; W. R. Dewdney, $14.20; W. H. Docksteader, $5.85; Dominion of Canada Guarantee, Accident & Insurance Co., $3.75; W. B. Fleming, $9; J. H. Goodeve, $1.75; Greenwood Corporation, $162; T. M. Gulley & Co., $13.40; King's Printer, $158.08; E. Larson, $1.20; Lee & Bryan, 45c.; R. T. Lowery, $2.50; H. McKee, $517.90; C. Nelson, $10; postage, $125; Remington Typewriter Co., $1.50; G. A. Rendall, $1.05; J. Thorslund, 70c.	1,117 93		
	Total expenditure, Greenwood Agency		4,809 93	
	Carried forward		$122,109 42	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
	Brought forward			$122,109 42 $ 260,896 74
123.	KAMLOOPS AGENCY.			
	Salaries ($12,993.09):			
	Agent	E. Fisher	$ 2,340 00	
	Assessor and Min'g Recorder.	L. S. Brown	1,920 00	
	Clerk and Deputy Registrar.	R. A. Bethune	1,600 00	
	Clerks:			
	C. W. Gauld..$1,153 22	J. A. Smith ..$ 198 32		
	H. H. Jones .. 16 33	J. D. Thompson 360 00		
	L. J. Price ... 1,392 00	R. F. Ure .. 1,452 00		
	E. Richards .. 203 22	.....	4,775 09	
	Stenographer	Z. Slavin	960 00	
	Janitors:			
	J. V. Collins ..$1,080 00	F. D. Turner....$39 00		
	J. Connors ... 9 00	.....	1,128 00	
	Fireman (night)	R. J. Scribner	270 00	
			$ 12,993 09	
	Expenses ($4,764.25):			
	J. Bann, $40; J. Bell, $8.50; B.C. Telephone Co., $150.40; L. S. Brown, $133.15; C.P.R. Co., $24.76; A. L. Collins, $61; Colonist P. & P. Co., $38.25; N. S. Dalgleish, $53.10; Dominion of Canada Guarantee, Accident & Insurance Co., $18.75; Dominion Express Co., $38.82; Dominion Government Telegraphs, 45c.; W. J. Ellis & Co., 75c.; E. Fisher, $28.95; C. W. Gauld, $16.50; H. Giddens, $77.80; J. H. How, $9; Hudson's Bay Co., $65.10; T. C. Humphrey, $4.45; Kamloops City, $345.85; Kamloops Telegram, $99.36; G. Key-Jones, $12.25; King's Printer, $684.62; J. G. Lambly, $16.10; Lands Department, $50; Land Registry Office, Kamloops, $300; Mallery Drug Co., Ltd., 50c.; J. Milton Estate, $1,414.45; W. W. Moore, $326.60; S. S. Moss, $21; Office Specialty Manufacturing Co., $3.74; postage, $712; C. Slarks, $8.05		4,764 25	
	Total expenditure, Kamloops Agency			17,757 34
124.	KASLO AGENCY.			
	Salaries ($10,040):			
	Agent (11½ mos.)	R. Hewat	$ 2,012 50	
	Agent (2 weeks)	R. J. Stenson	87 50	
	Assessor and Min'g Recorder.	A. McQueen	1,920 00	
	Clerks:			
	A. W. Anderson $1,452 00	A. Coombs ...$ 928 00		
	A. Bruce 400 00	C. Macdonald. 1,080 00	3,860 00	
	Stenographer	C. M. Fawcett	1,080 00	
	Janitor	A. Taylorson	1,080 00	
			$ 10,040 00	
	Expenses ($2,967.26):			
	F. E. Archer Hardware Co., $17.70; B.C. Telephone Co., Ltd., $117.10; Byers, Giegerich, Green Co., $53.40; C.P.R. Co., $104.80; A. Coombs, $9; Dominion of Canada Guarantee Accident & Insurance Co., $15; Dominion Express Co., $69.30; C. M. Fawcett, $4; W. Hendricks, $6.75; R. Hewat, $86.85; Kaslo City, $363.65; Kaslo Transfer Co., $429.30; King's Printer, $375.40; Kootenaian, $377.84; A. McQueen, $398.72; P. McGregor, $16.05; News Publishing Co., Ltd., $5;			
	Carried forward		$ 10,040 00	$139,866 76 $ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
124.	KASLO AGENCY—*Continued.*			
	Brought forward	$ 10,040 00	$139,866 76	$ 260,896 74
	Expenses—*Continued.* postage, $389; Remington Typewriter Co., Ltd., $22.50; Sanitary Supply, Ltd., $75; J. Taylorson, $25; C. W. Webster, $5.90	2,967 26		
	Total expenditure, Kaslo Agency		13,007 26	
125.	LILLOOET SUB-AGENCY.			
	Salaries ($3,351.96): Mining Recorder ..... J. Dunlop	$ 2,019 96		
	Clerk ..... D. C. Horth	1,332 00		
		$ 3,351 96		
	Expenses ($1,239.70): Dominion of Canada Guarantee & Accident Insurance Co., $3.75; Dominion Government Telegraphs, $12.61; J. Dunlop, $92.48; F. Gott, $20; Kamloops Telegram, $190.56; King's Printer, $166.26; Lands Department, $16; Lillooet Waterworks, $11.25; S. A. Macfarlane, $3.75; C. L. McCarthy, $390; J. Rebagliati, $14.19; postage, $169; Remington Typewriter Co., Ltd., $149.85	1,239 70		
	Total expenditure, Lillooet Sub-agency		4,591 66	
126.	MERRITT AGENCY.			
	Salaries ($6,679.92): Agent ..... J. A. Murchison	$ 2,019 96		
	Assessor ..... A. Kirby	1,200 00		
	Clerks: W. H. Boothroyd .....$1,599 96 M. Pott $840 00	2,439 96		
	Janitors: G. Devonshire ..$835 84 T. Watt $184 16	1,020 00		
		$ 6,679 92		
	Expenses ($1,095.08): Armstrong's Department Store, Ltd., $17.30; M. C. Baillie, $2.50; Bank of Montreal, $37.60; R. F. Barrett, $5.30; C.P.R. Telegraphs, $7.96; J. Collett, $12; Colonist P. & P. Co., Ltd., $67.50; Dominion of Canada Guarantee & Accident Insurance Co., $6.15; Dominion Express Co., $2.70; Dominion Government Telegraphs, $113.35; Fleming Coal Co., Ltd., $141; King's Printer, $244.54; R. E. Lodwick, $3.75; J. Martin, $6; Merritt City, $100.90; Merritt Herald, $76.60; Merritt Mercantile Co., $13.55; C. McIntosh, $16.08; P. McLean, $10.50; W. Pierre, $6; Pope & Small, $34.30; postage, $65; M. H. Rork, $10; J. Upston, $2; W. Welfare, $92.50	1,095 08		
	Total expenditure, Merritt Agency		7,775 00	
127.	NANAIMO AGENCY.			
	Salaries ($12,012.22): Agent ..... S. McB. Smith	$ 2,252 00		
	Assessor, etc. ..... A. Forrester	2,040 00		
	Special Collector ..... J. Shirras	1,600 00		
	Carried forward	$ 5,892 00	$165,240 68	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
127.	NANAIMO AGENCY—*Continued.*			
	Brought forward	$ 5,892 00	$165,240 68	$ 260,896 74
	Salaries—*Continued.*			
	Clerks:			
	J. J. Cottle ..$1,386 00 H. P. Hickling $1,272 00	2,658 00		
	Stenographers:			
	M. E. Booth..$ 780 00 L. Stewart ...$1,020 00			
	L. M. Manifold. 153 22 E. Watson ... 369 00	2,322 22		
	Janitor .....C. C. Henderson	1,140 00		
		$ 12,012 22		
	Expenses ($5,037.62): J. H. Bailey, $768.55; J. Barsby, $20.50; P. Bennett, $1.40; B.C. Telephone Co., $214.41; J. M. Brown, $5; C.P.R. Co., $3.41; Dominion of Canada Guarantee & Accident Insurance Co., $33.78; Dominion Express Co., $34.13; Electric Store, $6; A. N. Fletcher, $5; A. Forrester, $301.75; F. Gavin, $8; A. Haut, $49.50; A. Henderson, $616; J. S. Hodgins, Ltd., $3; W. Hoggan, $33.05; J. Hutchings, $3; Imperial Laundry Co., $1.10; F. Jeune & Bro., Ltd., $27.56; C. H. Jones & Son, Ltd., $23.53; King's Printer, $722.54; Lands Department, $2.50; Macey-Abell Co., Ltd., $88.75; J. May, $7.50; W. McKenney, $51.40; T. R. McLay, $12.50; Nanaimo City, $148.95; Nanaimo Builders' Supply, $11.82; Nanaimo Electric Light Co., $136.27; Nanaimo Free Press, $278.80; Nanaimo Metal Co., $2.50; Nanaimo Transfer, $12; A. Nash, $2.50; postage, $709.20; A. L. Rodway, $22.70; Sampson Hardware Co., $50.65; A. Schofield, $6.03; W. N. Scoville, $6.50; W. Shepherd, $15; J. Shirras, $18; H. Twidle, 25c.; United Typewriter Co., $160.15; Wardill Bros., $2.10; H. H. Weeks, $310.10; West Disinfecting Co., $15; Western Mercantile Co., $4.25; L. C. Young, $81	5,037 62		
	Total expenditure, Nanaimo Agency		17,049 84	
128.	NELSON AGENCY.			
	Salaries ($11,823.56):			
	Agent and Collector .....J. Cartmel	$ 2,400 00		
	Assessor .....E. Ferguson	1,980 00		
	Clerks:			
	E. T. Cope ...$1,500 00 D. Laughton..$1,452 00			
	G. T. Eyton .. 256 00 L. Wightwick. 1,392 00	4,600 00		
	Stenographers:			
	R. Lindblad ....$470 17 W. Palethorpe..$780 00			
	G. Miller ..... 126 06 H. M. Sturgeon 303 33	1,679 56		
	Janitors:			
	T. Bate .....$84 00 H.G.W.Perdue $1,080 00	1,164 00		
		$ 11,823 56		
	Expenses ($4,141.86): J. T. Bealby, $1.80; J. Bell, $9; Brackman-Ker Milling Co., 75c.; B.C. Plumbing Co., $19.85; B.C. Telephone Co., $119.60; Burroughs Adding Machine Co., $16.85; Canada Drug & Book Co., $1; C.P.R. Co., $25.87; J. Cartmel, $7.55; Colonist P. & P. Co., Ltd., $75; Creston Review, $263.56; Dominion of Canada Guarantee & Accident Insurance Co., $19.60; Dominion Express Co., $83.11; Dominion Government Telegraphs, $1.55; J. K. Douglas, $6; E. Ferguson,			
	Carried forward	$ 11,823 56	$182,290 52	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
128.	NELSON AGENCY—*Continued.*			
	Brought forward		$ 11,823 56	$182,290 52 $ 260,896 74
	Expenses—*Continued.*			
	$136.50; W. Fowles, $6; French Steam Laundry, $32.20; Howe Electric Co., $98.35; Hudson's Bay Co., $63.40; King's Printer, $715.48; Lands Department, $4.50; J. Lawson, $3; R. H. Maber, $1.50; Macey-Abell Co., Ltd., $62; D. A. McFarland, $882; Nelson City, $339.71; News Publishing Co., Ltd., $7.25; postage, $426; P. J. Rahal, 50c.; Remington Typewriter Co., $597.45; Sanitary Supply Co., $34.50; A. F. Shepherd, $11.75; Ship Chandlers, Ltd., $19.90; Standard Furniture Co., $4; United Typewriter Co., $5; T. H. Waters & Co., $29.30; Western Union Telegraph Co., 78c.; West Transfer Co., $9.05; Wood-Vallance Hardware Co., 65c.		4,141 86	
	Total expenditure, Nelson Agency			15,965 42
129.	NEW WESTMINSTER AGENCY.			
	Salaries ($19,421.43):			
	Agent .....F. C. Campbell		$ 2,400 00	
	Chief Clerk and Mining Recorder .....I. Wintemute		1,800 00	
	Assessor .....J. W. Creighton		2,100 00	
	Special Tax-collector .....A. Menzies		1,700 00	
	Clerks:			
	W. H. Cochrane $1,272 00	W. A. D. Jones $ 855 33		
	E. W. Corkett 33 33	R. Shirley ... 780 65		
	W. L. Fehner. 1,452 00	J. A. Young .. 1,675 00		
	P. Foot 496 90	.....	6,593 21	
	Stenographers:			
	M. I. Dickson ..$ 37 33	A. Robinson ...$ 35 00		
	E. Glass 25 93	M. M. Shepherd 702 42		
	M. Irving 128 23	D. Sinclair 337 18	1,266 09	
	Janitors:			
	A. H. Bacon..$ 50 13	J. A. Mont-		
	C. H. Calbick. 1,380 00	gomery $1,020 00		
	W. R. Graham 1,140 00	.....	3,590 13	
			$ 19,421 43	
	Expenses ($6,754.95):			
	Annandale Supply Co., $20.65; B.C.E.R. Co., Ltd., $50; B.C. Telephone Co., Ltd., $180.23; L. T. Brown, $1.85; Bryson & Sons, $17.15; R. Buckland, $35; Burr Office Supplies, $43.90; Burroughs Adding Machine Co., $369.15; C. H. Calbick, $3.80; F. C. Campbell, $19.95; Canadian Bank of Commerce, $56.05; C.P.R. Co., $3.28; Chapman's Motor Cartage, 75c.; Chilliwack Progress, $152.80; W. H. Cochrane, $2.12; W. S. Collister & Co., $20.10; Columbian, Ltd., $66.91; C. T. Cox, $13; J. W. Creighton, $326.61; Cudahy Packing Co., $3.92; Cunningham Hardware Co., $14.84; D. S. Curtis & Co., $3.25; Dominion of Canada Guarantee & Accident Insurance Co., $39.50; Dominion Express Co., $43.01; Galbraith & Sons (assignee), $3.53; Gilley Bros., Ltd., $1,503.96; G.N.W. Telegraph Co., 60c.; Hume & Rumble, $27.67; Insley Press, $2.15; James & McClughan, $16.90; F. Jeune & Bro., Ltd., $27.55; C. H. Jones & Son, Ltd., $18.70; King's Printer, $838.90; Lands			
	Carried forward		$ 19,421 43	$198,255 94 $ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
129.	NEW WESTMINSTER AGENCY—*Continued.*			
	Brought forward	$ 19,421 43	$198,255 94	$ 260,896 74
	Expenses—*Continued.* Department, $68.50; C. W. Leverington, $438; J. Mayers, $193.26; A. Menzies, $708.15; Model Grocery, $15; C. Moulton, $34.26; J. P. McMurphy, $18; New Westminster City, $463.13; New Westminster Gas Co., $6.37; J. F. Nielson, $8.75; postage, $738.76; Progress Publishing Co., Ltd., $3; A. Robinson, $1.10; G. A. Roedde, Ltd., $6.31; Royal City Glass Co., $10; Royal City Laundry, $28.63; R. Shirley, $2.20; T. H. Smith Co., Ltd., $17; G. R. Speck, $2.50; Speck & Robertson, $3; O. Swanson, $4.90; T. J. Trapp & Co., Ltd., $17.90; United Grain Growers, Ltd., $4.50; J. I. Ward, $3; West Disinfecting Co., $27; Westminster Iron Works, $3.15; J. A. Young, 70c.	6,754 95		
	Total expenditure, New Westminster Agency		26,176 38	
130.	NEW DENVER SUB-AGENCY.			
	Salaries ($1,765): Mining Recorder ....A. McInnes	$ 1,720 00		
	Clerk ....C. L. Aylwin	45 00		
		$ 1,765 00		
	Expenses ($403.68): P. Angrignon, $72.50; B.C. Telephone Co., $68.15; Denver Light & Power Co., $46.50; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $5.55; W. K. Gunn, $5; King's Printer, $59.68; A. McInnes, $16.15; R. S. Nelson, $2; C. F. Nelson, $3; New Denver Waterworks Co., $22.50; postage, $66.50; J. B. Smith, $2; G. M. Trickett, $31.65	403 68		
	Total expenditure, New Denver Sub-agency		2,168 68	
131.	NICOLA AGENCY. (Closed and transferred to Merritt in 1918.)			
	Salaries ($300): Caretaker for vacant building, T. Carrington	$ 300 00		
	Total expenditure at Nicola		300 00	
132.	150-MILE HOUSE AGENCY.			
	Salaries ($3,679.54): Agent ....R. M. McGusty	$ 1,720 00		
	Clerks: H. B. Campbell $1,415 00; W. H. L. Norris $105 00; C. H. Dodwell. 143 48; J. P. H. Swinkles 296 06	1,959 54		
		$ 3,679 54		
	Expenses ($1,351.54): Cariboo Observer, $11.55; Cariboo Trading Co., $11; Central Interior Printing Co., $45.36; L. J. Crosina, $51; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Government Telegraphs, $94.16; Fraser & McKenzie, $13.06; T. Hamilton, $70; W. C. Haug, $10; Inland Express			
	Carried forward	$ 3,679 54	$226,901 00	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
132.	150-MILE HOUSE AGENCY—*Continued.*			
	Brought forward	$ 3,679 54	$226,901 00	$ 260,896 74
	Expenses—*Continued.* Co., Ltd., $31.60; A. W. Jervis, $4.70; King's Printer, $222.15; Lands Department, $48; S. G. Marwick, $9; O. MacDougall, $4.20; R. M. McGusty, $179.50; R. McGusty (rent of building), $72; T. B. Paxton, $9; J. E. Pigeon, $128; N. Pinchbeck, $84; postage, $143; Remington Typewriter Co., Ltd., $3.30; Sentry Manufacturing Co., Ltd., $35; J. P. H. Swinkles, $58.96; M. A. Thomas, $3; L. Toma, $7.50	1,351 54		
	Total expenditure, 150 Mile House Agency		5,031 08	
133.	POUCE COUPE AGENCY.			
	Salaries ($1,316.44): Agent .....J. D. Moore	$ 1,120 00		
	Clerk .....A. Fisher	196 44		
		$ 1,316 44		
	Expenses ($3,200.57): H. G. Atkinson, $49.50; R. Baxter, $29.27; C.P.R. Co., $1.40; F. C. Collinson, $46.05; Colonist Printing & Publishing Co., $43.15; O. R. Cusach, $1.95; Dominion of Canada Guarantee & Accident Insurance Co., $12.15; Dominion Government Telegraphs, $92.68; D. D. Donald, $60; F. Donald, $55; G. J. Duncan, $12.50; V. Fellers, $7; J. Finn, $158.01; A. Fisher, $75.30; Goodman Rooming-house, $20; G.T.P. Telegraph Co., $8.12; A. R. Hamilton, $2.80; G. H. Hart, 35c.; F. C. Hasler, $240; T. W. Herne, $21.04; J. Hewitt, $4; G. A. James, $9.85; King's Printer, $859.93; Lamson & Hubbard, $11.65; Lands Department, $94.10; C. LeRoy, $12.75; E. A. Lord, $26.70; E. Monsell, $130; J. D. Moore, $462.15; A. McLean, $36; P. Ollinger, $18.55; Owens & Johnson, $3.55; Pellibier Bros., $2.85; postage, $40.50; Pouce Coupe Trading Co., $34.55; Remington Typewriter Co., $161.20; J. Rogers, $60; A. C. Sawdy, $1.80; Thompson Hardware Co., $2.70; Weiler Bros., Ltd., $275; J. H. White, $16.47	3,200 57		
	Total expenditure, Pouce Coupe Agency		4,517 01	
134.	PRINCE RUPERT AGENCY.			
	Salaries ($20,159.71): Agent .....J. H. McMullin	$ 2,340 00		
	Assessor .....C. W. Homer	2,160 00		
	Mining Recorder .....J. Conway	2,019 96		
	Clerks: C. Brewerton. $ 975 80; E. Lancaster ..$121 05; J. Clapperton. 121 05; W. Millar .... 447 58; A. M. Davies.. 1,392 00; W. H. L. Norris 64 35; G. M. Davies.. 847 00; W. J. Sloan ... 493 25; W. Denholm .. 810 65; W. D. Smith .. 121 05; W. Gale ..... 1,071 06; W. Stewart .... 411 61; A. J. Lancaster 1,535 00	8,411 45		
	Stenographers: E. M. Bailey...$585 00; A. S. Paul ....$200 00; G. W. Brooks... 75 00; A. Wood 810 00	1,670 00		
	Carried forward	$ 16,601 41	$236,449 09	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
134.	PRINCE RUPERT AGENCY—*Continued.*			
	Brought forward	$ 16,601 41	$236,449 09	$ 260,896 74
	Salaries—*Continued.*			
	Janitors: Mrs. E. van E. van Gastel. $1,140 00 Gastel .... $ 660 00	1,800 00		
	Special Collector ..... W. S. Fisher	1,758 30		
		$ 20,159 71		
	Expenses ($9,601.21): Albert & McCaffery, $1,944.44; Bank of Montreal, $13.51; Bell & Crossett, $197.50; J. Brand & Co., $56.70; J. Brown, $9; Burroughs Adding Machine Co., $15.60; R. W. Cameron, $3; Bank of Commerce, 40c.; Colonist Printing & Publishing Co., $229.50; J. Conway, $119; Cow Bay Tank Co., $34.60; Dominion of Canada Guarantee & Accident Insurance Co., $34.40; Dominion Express Co., $17.65; Dominion Government Telegraphs, $127.10; A. W. Edge Co., $2.25; W. S. Fisher, $219.10; W. Gale, $145.93; G.T.P. Telegraphs, $12.81; E. Hellman, $6.25; C. R. Holcroft, $2.25; C. W. Homer, $595.50; Howe & McNulty, $66.91; J. H. Kelly, $15.39; L. H. Kenney, 76c.; King's Printer, $783.14; Lands Department, $232.50; Lepine & Wright, $10.69; Mitchell & Currie, $485.45; Munro Bros., $43.95; L. McDonald, $285; J. H. McMullin, $111.05; McRae Bros., $54.65; News Printing & Publishing Co., $1,148.60; Ormes, Ltd., $14.10; Pacific Cartage Ltd., $112.11; Parkin & Ward, $67.08; Pioneer Laundry, $43.95; postage, $862.89; Prince Rupert City, $526.18; Prince Rupert Telephone Co., $293; Prince Rupert Feed Co., $9.20; Silverside Bros., $72.20; Steen & Longwill, $230.42; F. Stork, $8.80; Thompson Hardware Co., Ltd., $41.45; G. D. Tite, $58.55; United Typewriter Co., $180; E. van Gastel, $39.45; W. G. Walford, $7; Ward Electric & Marine Co., $1.25; W. W. Wrathall, $1.20; pay-list, labour, $7.80	9,601 21		
	Total expenditure, Prince Rupert Agency		29,760 92	
135.	PRINCETON AGENCY.			
	Salaries ($3,661.96): Agent and Collector .....H. Hunter	$ 2,019 96		
	Clerks: M. Coley .....$150 00 F. W. Tre- M. Herbison ... 100 00 hearne $1,392 00	1,642 00		
		$ 3,661 96		
	Expenses ($1,397.07): F. Anderson, 50c.; J. Auld, $60; C.P.R. Telegraphs, $20.70; Colonist Printing & Publishing Co., Ltd., $37.50; F. P. Cook Estate, $1.25; Co-operative Store, $2.15; Dominion of Canada Guarantee & Accident Insurance Co., $5; Dominion Express Co., $8.63; Dominion Government Telegraph Service, $87.50; J. F. Fleming, $18; W. S. Garrison, $95.10; G.N.W. Telegraph Co., $1.06; C. Hunter, $42; W. Hunter, $217.75; King's Printer, $165.63; J. F. Lobb, $1; R. E. Lodwick, $20; E. Macauley (Mrs.), $240; H. B. Meausette, $1; F. McLean, $1; postage, $162;			
	Carried forward	$ 3,661 96	$266,210 01	$ 260,896 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF FINANCE—*Continued.*		
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*		
135.	PRINCETON AGENCY—*Continued.*		
	Brought forward	$ 3,661 96	$266,210 01 $ 260,896 74
	Expenses—*Continued.*		
	Princeton Coal & Land Co., $114; Princeton Co-operative Association, 40c.; Princeton Garage, 50c.; Princeton Star, $91.40; A. Sorenson, $3	1,397 07	
	Total expenditure, Princeton Agency		5,059 03
136.	QUESNEL AGENCY.		
	Salaries ($18,464.29):		
	Agent .....E. C. Lunn	$ 2,100 00	
	Assessor .....W. Couldwell	1,920 00	
	Clerks:		
	C. C. Allen ...$ 109 72 H. T. Kraemer $1,600 00		
	S. Allen ..... 1,500 00 L. C. Maclure 1,600 00		
	M. Carson ... 67 50 H. Mehaffey.. 1,495 83		
	L. Collins ... 15 00 C. Mountfield. 2 50		
	J. P. Davies (half-salary) 120 00 J. D. Roberts. 72 80 S. W. N. Saunders 1,380 00		
	G. Ewing 412 50		
	C. S. Foot ... 1,520 00 H. Shaw 1,500 00		
	J. Foster .... 233 33 F. M. Sterry. 1,289 35		
	M. Foyle .... 5 00 E. Wells 6 25		
	A. Greenwood. 3 00 H. Windt ... 203 63		
	M. F. Heatherbell 460 00	13,596 41	
	Stenographers:		
	A. E. MacEachern $4 50 I. M. Radford..$675 00	679 50	
	Janitors:		
	G. Bowers .....$26 61 D. M. Hughes..$110 32		
	G. Broughton, Sr. 15 62 J. Iverson 15 83	168 38	
		$ 18,464 29	
	Expenses ($8,080.61):		
	Allison Drug & Book Co., 50c.; G. Bowers, $2; J. A. Bowles, $43.40; J. Boyd, $775; B.C. Express Co., $122.23; A. M. Cameron, $59; C.P.R. Co., $5.45; Cariboo Observer, $1,651.83; R. R. Carver, $22; W. Couldwell, $921.90; Cowan Supply Co., $120; J. Craig, $20; Dominion of Canada Guarantee & Accident Insurance Co., $17.50; Dominion Government Telegraphs, $242.66; Dominion Rubber System (Pacific), $3; Edward (Indian), $5; C. S. Foot, $25; J. A. Fraser & Co., Ltd., $21.45; P. Harland, $15.60; M. F. Heatherbell, $54.35; D. M. Hughes, $19.25; O. Hung, 50c.; D. W. Huston, $5.24; J. G. Hutchcraft, $61.15; Inland Express Co., $118; Johnston Bros., $14; King's Printer, $1,372.20; Lands Department, $103.50; J. A. Lazzerin, $1.50; Wah Lee & Co., $14; R. A. Leonard. $10; Little & Taylor, $16.70; E. C. Lunn, $200; Macey-Abell Co., Ltd., $140; N. McMillan, $89.38; J. Norwood, $15; Nugget Café, $4.90; P.G.E. Railway Co., $2.99; Pease Western Foundry, Ltd., $18.06; R. Pickard, $14.50; postage, $1,317.94; Quesnel Livery & Sales Stables, $3; Quesnel Telephone Co., Ltd., $88.95; I. M. Radford, $56.40; Royal Bank of Canada, $170.78; Sing Chew, $2.50; Steel End Express Co., $34.40; Victoria Book & Stationery Co., Ltd., $13; Weeks & McTaggart, $18.40; H. G. Windt, $13; J. H. Wood, $13.50	8,080 61	
	Total expenditure, Quesnel Agency		26,544 90
	Carried forward		$297,813 94 $ 260,896 74

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
	Brought forward		$297,813 94	$ 260,896 74
137.	QUEEN CHARLOTTE ISLANDS SUB-AGENCY.			
	Salaries ($960):			
	Mining Recorder .....J. L. Barge	$ 900 00		
	Janitor .....A. Barge	60 00		
		$ 960 00		
	Expenses ($424.01):			
	J. L. Barge, $110; D. Cochrane, $47.80; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Government Telegraph Service, $7.05; King's Printer, $42.27; Lands Department, $7; postage, $48.64; J. Renner, $160	424 01		
	Total expenditure, Queen Charlotte Islands Sub-agency..		1,384 01	
138.	REVELSTOKE AGENCY.			
	Salaries ($9,636.96):			
	Agent .....A. Johnson	$ 2,100 00		
	Assessor .....J. A. Stewart	1,920 00		
	Mining Recorder .....J. Lee	1,539 96		
	Clerk .....C. J. Aman	1,392 00		
	Stenographers:			
	A. McGiven ....$900 00 J. McGregor ..$840 00	1,740 00		
	Janitors:			
	W. Allen .....$450 00 C. Watson $270 00			
	E. H. Bond 225 00	945 00		
		$ 9,636 96		
	Expenses ($3,883.19):			
	T. Allen, $6.75; W. Allen, $4; G. W. Bell, $1.25; C.P.R. Telegraph Co., $52.75; City of Revelstoke, $208.70; Colonist P. & P. Co., Ltd., $37.50; Columbia Hardware Co., $17.05; H. N. Coursier, $562.94; Dominion of Canada Guarantee & Accident Insurance Co., $15; Dominion Express Co., $67.55; G. W. Fraser, $10; F. H. Hay, $5; C. B. Hume & Co., $5.80; S. Humphreys, $9; F. Ibbotson, $2.25; Imperial Bank of Canada, $23.50; A. Johnson, $82.05; King's Printer, $331.80; Lands Department, $8; J. Lee, $3.55; E. Leonard, $13; Murray Bros., Ltd., $82.95; S. McMahon, $1; A. M. Pearman, 50c.; postage, $392.79; Remington Typewriter Co., Ltd., $157.95; Revelstoke Agencies, Ltd., $158.40; Revelstoke Plumbing & Heating Co., $8.55; Revelstoke Review Publishing Co., Ltd., $329.49; Revelstoke, Trout Lake & Big Bend Telephone Co., $78.75; S. G. Robbins, $442.04; M. H. Rock, $18; C. C. Snowdon, $21.75; J. A. Stewart, $375.70; E. C. Stuart, $8; Sturdy Hardware Co., $4.65; J. P. Sutherland, $9.23; United Typewriter Co., Ltd., $324; Mrs. C. Watson, $2	3,883 19		
	Total expenditure, Revelstoke Agency		13,520 15	
139.	ROSSLAND AGENCY.			
	Salaries ($7,148.55):			
	Agent .....H. R. Townsend	$ 2,100 00		
	Carried forward	$ 2,100 00	$312,718 10	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
139.	ROSSLAND AGENCY—*Continued.*			
	Brought forward	$ 2,100 00	$312,718 10	$ 260,896 74
	Salaries—*Continued.*			
	Clerks:			
	J. H. Byrne..$ 286 55 W. H. Reid..$1,480 00			
	E. Malcolm... 1,392 00	3,158 55		
	Stenographer .....E. McLean	870 00		
	Janitor .....A. Williams	1,020 00		
		$ 7,148.55		
	Expenses ($4,021.22):			
	Bank of Montreal, $65.21; R. Barrie, $4.45; J. Bell, $65; B.C. Telephone Co., $82.50; Burroughs Adding Machine of Canada, $377.30; J. H. Byrne, $72.60; C.P.R. Co., $27.96; City of Rossland, $48; Dominion Express Co., $44.05; Dominion of Canada Guarantee & Accident Insurance Co., $13.65; G.N.R. Co., $1.10; Greenwood Ledge, $455.04; Henderson's Livery, $1; Hunter Bros., $563.09; J. M. Jordan, $18; King's Printer, $836.87; S. T. Larsen, $90.70; R. E. Lodwick, $22; C. J. Miles, $55.60; E. F. Morris, $2; Nelson Hardware Co., $196.85; postage, $436; Remington Typewriter Co., Ltd., $6; Rossland Water & Light Co., $159.33; E. Seccombe, $1.50; H. R. Townsend, $5; A. Williams, $3.50; pay-list, labour, $366.92	4,021 22		
	Total expenditure, Rossland Agency		11,169 77	
140.	SMITHERS AGENCY.			
	Salaries ($13,048.57):			
	Agent .....S. H. Hoskins	$ 2,100 00		
	Assessor .....H. Welch	2,040 00		
	Mining Recorder .....J. E. Kirby	1,719 96		
	Clerks:			
	J. H. Byrne ..$ 58 06 O. K. Lord $172 33			
	A. E. Campbbell 1,392 00 J. C. Luke 596 61			
	T. Cole ..... 230 55 G. L. Rideout.. 533 56			
	L. P. Collins.. 103 83 G. V. Storkey.. 280 75			
	A. F. Dunn .. 1,272 00 N. Willimar ... 87 09			
	W. Gale ..... 320 94 H. G. Windt .. 967 73			
	A.G.Heffernan 406 50	6,421 95		
	Stenographers:			
	G. Bosley .....$86 66 A. J. Jones ...$200 00	286 66		
	Janitor .....Ah Dip	480 00		
		$ 13,048 57		
	Expenses ($4,834.76):			
	J. M. Adams, $8.15; I. A. Arnold & Son, $54; W. F. Boyer, $182.46; H. O. Bryant, $9.35; J. H. Byrne, $41.15; Canadian Express Co., $64.40; Canadian National Railways, $11.49; C.P.R. Co., $2; A. Chisholm, $52.25; City Transfer, $1.70; T. Cole, $222.35; Collector of Revenue, $1.40; L. P. Collins, $46.25; Dominion of Canada Guarantee & Accident Insurance Co., $20.95; Dominion Government Telegraph Service, $100.41; S. A. Eby, $14.90; G.T.P. Telegraph Co., $15.24; B. A. Haining, $2; A. G. Heffernan, $39.65; S. H. Hoskins, $231; Interior News, $22.10; King's Printer, $1,069.34; T. J. Kirkpatrick, $1.75; J. B. Langston, $3.25;			
	Carried forward	$ 13,048 57	$323,887 87	$ 260,896 74

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No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
140.	SMITHERS AGENCY—*Continued.*			
	Brought forward	$ 13,048 57	$323,887 87	$ 260,896 74
	Expenses—*Continued.* Lands Department, $84; O. K. Lord, $43.90; J. C. Luke, $51; A. S. Miller, $8; Omineca Herald, $343.88; W. J. O'Neill, $48; A. E. Phillips, $2.70; postage, $519.62; G. L. Rideout, $43.55; Sam Kee, $1.15; D. C. Sangster, $6; R. S. Sargent, $4.50; Smith & McKinnon, $205.50; J. & J. Taylor, $386.29; Union Bank of Canada, $136.93; United Typewriter Co., Ltd., $14.95; F. Watson, $7.20; H. Welch, $205.05; R. E. Williams, $455; H. C. Windt, $50 ...	4,834 76		
	Total expenditure, Smithers Agency		17,883 33	
141.	TELEGRAPH CREEK AGENCY.			
	Salaries ($1,899.96): Agent, Gold Commiss'r, etc...H. W. Dodd	$ 1,719 96		
	Clerk .....D. Dodd	180 00		
		$ 1,899 96		
	Expenses ($843.04): Barrington Transport Co., $3.90; J. Dodd, $55; Dominion of Canada Guarantee & Accident Insurance Co., $3.75; Hudson's Bay Co., $32.80; J. Hyland Estate, $117.40; King's Printer, $63.46; A. Marion, $6; postage, $25; J. C. Simpson, $45; W. S. Simpson, $98; J. Sorenson, $10; C. Vance, $360; Yukon Telegraphs, $22.73	843 04		
	Total expenditure, Telegraph Creek Agency		2,743 00	
142.	TROUT LAKE SUB-AGENCY.			
	Salaries ($1,272): Mining Recorder .....O. Jacobson	$ 1,272 00		
	Expenses ($156.43): A. Abrahamson, $30; G. Berg, $4.50; A. C. Cummins, $10.85; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; S. H. Edwards, $4.85; G. Gray, $4; King's Printer, $50.53; F. LeBeau, $12; E. R. Madden, $5.20; postage, $32	156 43		
	Total expenditure, Trout Lake Sub-agency		1,428 43	
143.	VANCOUVER AGENCY.			
	Salaries ($72,232):			
	Agent .....J. Mahony	$ 2,820 00		
	Clerk and Mining Recorder..A. P. Grant	2,020 00		
	Clerks: F. H. Behnsen $1,163 90 T. G. Goodman $ 758 59; R. Blake ..... 1,452 00 J. A. Pyke .. 1,452 00; R. A. Burgoyne 1,452 00	6,278 49		
	Clerk and Stenographer ....A. M. Latimer	320 00		
	Stenographers: O. L. Brenchley $749 66 R. Henry .....$631 45; A. Dagger 486 45	1,867 56		
	Junior Clerk .....J. D. Ross	642 60		
	Assessor and Collector's Office.			
	Assessors: G. W. Cripps..$1,703 22 E. B. McMaster $731 61	2,434 83		
	Collector .....N. R. Brown	2,220 00		
	Deputy Assessor .....J. Clint	2,020 00		
	Carried forward	$ 20,623 48	$345,942 63	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
143.	VANCOUVER AGENCY—*Continued.*			
	Brought forward		$ 20,623 48	$345,942 63 $ 260,896 74
	Salaries—*Continued.*			
	Assessor and Collector's Office—Continued.			
	Clerks:			
	A. Bridgman..$1,452 00	B. M. Murray $ 960 00		
	H. Brooke ... 1,600 00	P. McAllister. 1,500 00		
	R. G. Campbell 1,280 00	C. McGuire .. 1,452 00		
	G. H. Chamber-	H. Pittendrigh 1,200 00		
	lain 1,452 00	H. Stewart .. 845 83		
	A. A. Davies.. 1,452 00	R. H. Wager. 121 00		
	J. H. Graham. 484 00	W. H. Wallace 1,452 00	15,250 83	
	Special Tax-collectors:			
	T. Allardyce..$1,700 00	G. H. Hill...$1,700 00		
	A. Blygh 566 66	W. H. Kelly.. 1,700 00	5,666 66	
	Clerk and Stenographer	N. B. Archer	612 09	
	Court-house Attendants.			
	Engineer	J. Cameron	1,860 00	
	Firemen:			
	W. Ellis $1,380 00	E. O. Turner $1,500 00	2,880 00	
	Elevator Attendant	T. G. Goodman	79 17	
	Carpenters:			
	H. M. Burns..$1,500 00	W. Hale $384 50		
	A. Church ... 363 50	W. K. Woodyard 273 88	2,521 88	
	Chief Janitor	C. J. Wilkes	1,500 00	
	Nightwatchmen:			
	G. Ainbow ...$ 24 00	J. Little $20 00		
	J. Fox 1,140 00	.....	1,184 00	
	Night Foreman and Janitor..	D. Thomas	1,255 00	
	Gardener and Janitor	H. Wass	1,140 00	
	Janitors:			
	E. H. Bond ..$ 941 34	F. Pike .....$ 76 00		
	H. C. Cox 1,200 00	T. Powell ... 848 38		
	S. Dagnall ... 1,200 00	F. Smith 1,200 00		
	T. Delbridge.. 1,145 00	W. P. Turton 1,200 00		
	S. Ferguson... 129 17	S. A. Walker. 404 00		
	J. Gray 1,200 00	T. E. White-		
	E. T. Hardwick 1,200 00	house 1,145 00		
	J. E. Mayhew. 1,200 00	R. H. Young. 1,145 00		
	H. Mackenzie. 1,145 00	.....	15,378 89	
	Usher	A. M. Evans	1,140 00	
	Gardener	L. Moseley	1,140 00	
			$ 72,232 00	
	Expenses ($33,680.42):			
	Office Supplies, etc.:			
	G. E. Adams, $25; B.C. Printing & Litho., Ltd., $125; Brooks-Corning Co., Ltd., $384.45; N. R. Brown (sundry accounts), $10.28; Burroughs Adding Machine of Canada, Ltd., $43.72; Clarke & Stuart Co., Ltd., $7.10; C.P.R. Co., $6.20; Dominion of Canada Guarantee & Accident Insurance Co., $74.80; Dominion Express Co., $65.94; R. G. Dun & Co., $25; E. B. Eddy Co., Ltd., $77.43; Electric Supply & Contracting Co., $22.90; Graham Electric Co., $9; Granville Stationers, $3.50; Henderson Directory Co., $24; G. H. Hewitt Co., Ltd., $16.20; Hudson's Bay Co., $26.40; King's Printer, $1,669.06; R. P. Latta & Co., $106.75; Office Specialty Manufacturing Co., Ltd., $595.95;			
	Carried forward		$ 72,232 00	$345,942 63 $ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
143.	VANCOUVER AGENCY—*Continued.*			
	Brought forward	$ 72,232 00	$345,942 63	$ 260,896 74
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.* postage, $1,544.95; Progress Publishing Co., Ltd., $3; G. A. Roedde, $9.75; Rose, Cowan & Latta, Ltd., $22.50; Royal Crown Soaps, Ltd., $17.45; Simpson-Balkwill, Ltd., 75c.; Smith, Davidson & Wright, Ltd., $6.80; Tower Publishing Co., $1; Typewriter Service Co., $1; Underwood Typewriter Co., $16; United Typewriter Co., $187.75; Vancouver Daily Province, $229.35; Vancouver Daily Sun, $99.45; West Disinfecting Co., $39; Western Specialty, $3.50; The World, Ltd., $3; Wrigley Directories, Ltd., $20	5,523 93		
	Travelling Expenses: H. Brooke, $122.52; G. W. Cripps, $62.50; G. H. Hill, $91.35; W. H. Kelly, $133.90; J. Mahony, $14.50; W. H. Wallace, $4; B.C.E.R. Co., Ltd. (car tickets), $44.80	473 57		
	Maintenance and Repairs of Buildings: Arco Co., $175; Barr & Anderson, $145; H. Birks & Sons, Ltd., $50; Bogardus-Wickens, Ltd., $286.14; J. Brand & Co., $31.25; J. Brown, $59.50; H. M. Burns, $36; Canada General Electric Co., Ltd., $54; A. J. Cassels & Co., $6; City Chimney Sweeping Co., $17.50; J. N. Copp Co., Ltd., $1,646.03; Crane, Ltd., $223.45; C. J. Cummings & Co., $238; F. L. Cumings & Co., $347; F. Darling & Co., Ltd., $199.50; Dixon & Murray, $1,141.90; Empire Transfer Co., $40; Evans, Coleman & Evans, Ltd., $17.02; A. N. Fletcher, $3.50; Fourth Avenue Heating & Plumbing Works, $208.40; Graham Electric Co., $114.48; Johnson Temperature Regulator Co., Ltd., $386.46; Lewis & Sills, Ltd., $4.50; Martin, Finlayson & Mather, Ltd., $3.85; Millar & Co., Ltd., $4.50; Murray Bros., Ltd., $315; W. T. McArthur & Co., Ltd., $180.14; McLean & Powell Iron Works, $13.25; McLennan, McFeely & Co., Ltd., $33.94; Northern Electric Co., Ltd., $93.34; W. N. O'Neil Co., Ltd., $229.12; Otis-Fensom Elevator Co., $21.60; Pacific Machine Shop, $243.18; Pacific Welding Co., $7; W. Parker, $11; Peterson & Cowan Elevator Co., Ltd., $43.75; R. Rellock, $25.38; Ritchie Bros. & Co., $62; Robertson & Hackett Sawmills, Ltd., $96.60; Ross & Howard Iron Works Co., Ltd., $14.52; Simpson, Balkwill & Co., Ltd., $19.13; J. Sinker, $20; J. Smith, $190; D. Spencer, Ltd., $691.94; Standard Furniture Co., $3; J. Thomas, $80.50; A. Vogee, $417.57; Western Oil & Supply Co., $14.90; pay-list, $35	8,300 84		
	Fuel, Water, Light, etc.: Bayfield & Archibald, $25.28; H. Birks & Sons, Ltd., $114; Bogardus-Wickens, Ltd., $12.60; B.C.E.R. Co., Ltd., $3,793.03; B.C. Refining Co., Ltd., $35.67; B.C. Telephone Co., Ltd., $4,438.27; Burritt Bros., $47.75; Campbell's Storage Co., $6.10; Canada General Electric Co., Ltd., $946.13; C.P.R. Co., $27.86; Carnahan Bros., $283; City of Vancouver, $1.25; F. Darling & Co., Ltd., $6.15;			
	Carried forward	$ 86,530 34	$345,942 63	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
143.	VANCOUVER AGENCY—*Continued.*			
	Brought forward		$ 86,530 34	$345,942 63 $ 260,896 74
	Expenses—*Continued.*			
	Fuel, Water, Light, etc.—*Continued.*			
	Dunlop Tire & Rubber Goods Co., $2; E. B. Eddy Co., Ltd., $100.29; Electric Supply & Contracting Co., $547.29; Empire Transfer Co., $77; Graham Electric Co., $323.58; Haskins & Elliot, $1.80; Hudson's Bay Co., $29.80; Imperial Oil, Ltd., $4.64; Knowlton's, Ltd., $26.20; Lewis & Sills, Ltd., $67.75; E. Lipsett, $31.73; Monastery Laundry, 75c.; W. T. McArthur & Co., Ltd., $406.25; Ritchie Bros. & Co., $4.50; Robertson-Godson Co., $2.50; Royal Crown Soaps, Ltd., $120.32; Simpson-Balkwill Co., Ltd., $81.52; Smith, Davidson & Wright, Ltd., $196.16; Stearman Hardware Co., 30c.; J. A. Tepoorten, Ltd., $12.73; Thomson Coal Co., Ltd., $6,221.43; Vancouver City Water Works, $566.45; Vancouver Gas Co., $6.25; Vancouver Daily Province, $45; Vancouver Daily Sun, $25.50; Vancouver Towel Service Co., $102; West Disinfecting Co., $641.25		19,382 08	
	Total expenditure, Vancouver Agency			105,912 42
144.	VERNON AGENCY.			
	Salaries ($11,552.18):			
	Agent and Collector	L. Norris	$ 2,100 00	
	Assessor and Min'g Recorder	H. F. Wilmot	2,071 92	
	Clerks:			
	J. Fisher $ 800 00	A. B. Smith $1,080 00		
	G. Millar 666 65	S. Somerville. 786 29		
	J. G. Simms.. 1,500 00		4,832 94	
	Stenographers:			
	E. Cato $ 55 70	R. G. Page $ 55 70		
	D. Quine 260 00	E. Pates 50 79		
	H. K. Harris 10 83	R. Robertson 192 03		
	D. Metcalfe 307 27	B. Wightman 72 25	1,004 57	
	Junior Clerk	J. Y. Towgood	325 00	
	Janitors:			
	S. Balcombe $63 75	A. G. Downing $1,020 00		
	E. Bate 12 00	W. T. Wright 68 00		
	H. C. Cooper... 54 00		1,217 75	
			$ 11,552 18	
	Expenses ($6,652.65):			
	C. A. C. Allen, $35.40; Armstrong Advertiser, $301.86; J. Ansell, $4; T. Arnold, $5; J. C. Atkinson, $3.20; W. G. Baillie, $144.90; E. Bate, $16; R. E. Berry & Co., Ltd., $5; A. E. Bristow, $9.47; E. P. Brown, $2.33; Burroughs Adding Machine of Canada, Ltd., $7.31; Campbell Bros., $2; Canada General Electric Co., Ltd., $50; C.P.R. Co., $53.55; F. Cooper, $1.75; Corporation of the City of Vernon, $789.64; A. Deschamps, $3; Dominion Express Co., $106.72; Dominion of Canada Guarantee & Accident Insurance Co., $11.25; A. G. Downing, $12.91; J. M. Edgar, $54.15; H. Ellison, $4.50; J. Fisher, $24; L. S. Gray, $16.90; H. Green, $15.93; T. Harmer, $22.50;			
	Carried forward		$ 11,552 18	$451,855 05 $ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
144.	VERNON AGENCY—*Continued.*			
	Brought forward	$ 11,552 18	$451,855 05	$ 260,896 74
	Expenses—*Continued.* J. J. Holland, $48.55; Hudson's Bay Co., $24.90; Imperial Oil, Ltd., $25.85; E. P. Kilpin, $140; King's Printer, $904.41; Lands Department, $30; G. Millar, $21.80; M. Mitchell, $10; C. W. Mohr, $3; S. H. Moore, $1,268.75; Neil & Cryderman, $239.82; W. J. Nichols, $83.97; postage, $821; Okanagan Book Store, $1.25; Okanagan Co-op. Association, $30; Okanagan Hardware Co., $58.25; Okanagan Telephone Co., $253.85; T. Quin, $2.50; W. Redman, $17; Remington Typewriter Co., $490.40; A. Rogers & Co., $2; S. P. Seymour, $67.65; F. Simmons, $15.93; S. C. Smith Lumber Co., $19.77; J. F. Stainton, $6; H. S. Timberlake, $5; United Typewriter Co., $8; Vernon Hardware Co., Ltd., $31.41; Vernon Lumber Co., $39.25; Vernon News P. & P. Co., Ltd., $11.16; Victoria Book & Stationery Co., Ltd., $128.25; S. Ward, $60.56; H. F. Wilmot, $62.10; J. C. Wilson, $17	6,652 65		
	Total expenditure, Vernon Agency		18,204 83	
145.	VICTORIA ASSESSOR.			
	Salaries ($18,800.76):			
	Assessor ..... T. H. Leeming	$ 2,820 00		
	Collector ..... F. J. Sehl	2,220 00		
	Clerks:			
	W. O. Carter $1,500 00	F. C. Mawhinney $1,392 00		
	H. J. Jackson 125 00	W. H. L. Norris 481 00		
	W. W. Josephs 121 00	P. M. Sanford 1,320 00		
	E. A. Lewis 1,580 00	F. M. Shandley 1,272 00	7,791 00	
	Stenographer ..... V. V. Harper	870 00		
	Special Tax-collectors:			
	A. E. Kent $1,699 92	W. W. Moore $1,699 92		
	D. Lewis 1,699 92		5,099 76	
		$ 18,800 76		
	Expenses ($2,404.61): B.C. Telephone Co., $135.75; C.P.R. Telegraphs, $2.25; Colonist P. & P. Co., $98.25; Dominion of Canada Guarantee & Accident Insurance Co., $40; W. S. Fraser & Co., Ltd., 76c.; E. S. Harris, $1; Henderson Directory Co., $8; A. E. Kent, $62.95; King's Printer, $615.67; T. H. Leeming, $325.75; D. Lewis, $45.85; Little & Taylor, $3; L. C. Lytton, $5; Macey Office Equipment Co., $113.50; W. W. Moore, $49.40; postage, $504.78; Public Works Department, $2.50; Reliable Transfer Co., $2.45; Remington Typewriter Co., $13; F. J. Sehl, $54.45; Times P. & P. Co., $302.30; Victoria Book & Stationery Co., Ltd., $8; Wrigley Directories, Ltd., $10 ...	2,404 61		
	Total expenditure, Victoria Assessor		21,205 37	
146.	WILMER SUB-AGENCY.			
	Salaries ($1,800):			
	Mining Recorder, etc. ..... E. M. Sandilands	$1,800 00		
	Carried forward	$ 1,800 00	$491,265 25	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
146.	WILMER SUB-AGENCY—*Continued.*			
	Brought forward	$ 1,800 00	$491,265 25	$ 260,896 74
	Expenses ($620.99): F. G. Ball, $80; R. R. Bruce, $96; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Government Telegraphs, $48.80; Invermere Contracting & Supply Co., $6.85; King's Printer, $78.09; R. E. Lodwick, $15.70; D. Martin, $38; D. J. McLeod, $5; R. Patten, $17.75; postage, $63; E. Rauch, $80; W. H. Seaton, $50; M. A. Smith, $9.60; Wilmer Mercantile Co., $29.70	620 99		
	Total expenditure, Wilmer Sub-agency		2,420 99	
147.	YALE SUB-AGENCY.			
	Salaries ($1,659.96): Mining Recorder ..... H. Beech	$ 1,659 96		
	Expenses ($516.76): W. W. Bailey, $18; H. Beech, $33.40; C.P.R. Co., $31.78; D. J. Creighton, $268.60; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $2.10; B. H. Haire, $5; John (Indian), $3; King's Printer, $85.38; O. O. Lee, $10; postage, $42; Rosie (Indian), $15	516 76		
	Total expenditure, Yale Sub-agency		2,176 72	
148.	SUNDRY SUB-AGENCIES.			
	Commissions, Salaries, and Expenses:			
	Alice Arm: King's Printer	$ 3 16		
	Beaton: F. I. Fraser, $102.50; King's Printer, $2.51; postage, $6; W. Strutt, $20	131 01		
	Clayoquot: Dominion of Canada Guarantee & Accident Insurance Co., $2.50; King's Printer, $12.63	15 13		
	Creston: Dominion Express Co., $2.56; Dominion of Canada Guarantee & Accident Insurance Co., $2.50	5 06		
	Fort St. James: King's Printer	5 00		
	Fort St. John: F. W. Beatton, $300; King's Printer, $2.61	302 61		
	Hedley: King's Printer	79		
	Hudson Hope: King's Printer	38		
	Islands: Dominion of Canada Guarantee & Accident Insurance Co., $4.85; T. W. Fry, $2.60; King's Printer, $53.01; postage, $46.22; W. W. Thomas, $47.55	154 23		
	Kitimat: Postage	5 00		
	Lockeport: King's Printer	6 63		
	Nakusp: Dominion of Canada Guarantee & Accident Insurance Co., $1.25; A. J. Grigg, $16; F. Jeune			
	Carried forward	$ 629 00	$495,862 96	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
148.	SUNDRY SUB-AGENCIES—*Continued.*			
	Brought forward	$ 629 00	$495,862 96	$ 260,896 74
	Commissions, Salaries, and Expenses—*Continued.*			
	Nakusp—*Continued.*			
	& Bro., Ltd., $18; King's Printer, $13.01; R. J. Masters, $56; Nakusp Co-operative Society, $5.65; postage, $15.50; W. Scott, $541.80	667 21		
	Ocean Falls:			
	Pacific Mills, Ltd.	71 65		
	150-Mile House:			
	King's Printer, $30.96; United Typewriter Co., $132.55	163 51		
	Quatsino:			
	Dominion of Canada Guarantee & Accident Insurance Co., $1.25; E. Evenson, $75.51	76 76		
	Queen Charlotte:			
	King's Printer	6 51		
	Slocan City:			
	C.P.R. Co., $34.08; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; King's Printer, $38.95; T. McNeish, $120; postage, $16.67; J. M. Rae, $5	215 95		
	Stewart:			
	Albert & McCaffery, $492.25; Aldred & Carruthers, $8.50; H. C. Bennett, $28.75; Canadian Express Co., $2.10; Dominion of Canada Guarantee & Accident Insurance Co., $1.94; H. Hostman, $42.50; P. S. Jack, $20; King's Printer, $91.84; J. Mellor, $49.25; postage, $50; Salmon River Trading Co., $20; A. E. Young, $55	862 13		
	Telkwa:			
	King's Printer	5 00		
	Terrace:			
	Dominion of Canada Guarantee & Accident Insurance Co.	1 25		
	Total expenditure, Sundry Sub-agencies		2,698 97	
149.	SUNDRY AGENCIES AND ASSESSORS, ETC.			
	Construction of Fire-proof Vaults and Purchase of Safes for Protection of Public Property:			
	Atlin:			
	Lands Department, 90c.; J. & J. Taylor, $620	$ 620 90		
	Barkerville:			
	Lands Department	60		
	Fort Fraser:			
	Lands Department, $1.20; J. & J. Taylor, $155...	156 20		
	Fort George:			
	J. & J. Taylor	155 00		
	Kaslo:			
	J. & J. Taylor	350 00		
	Nanaimo:			
	A. Henderson, $365; J. & J. Taylor, $155; I. C. Young, $70	590 00		
	Nelson:			
	C.P.R. Co., $18.58; E. Doucette, $78.90; J. & J. Taylor, $155	252 48		
	Queen Charlotte City:			
	J. & J. Taylor	393 97		
	Smithers:			
	G.T.P. Railway Co.	23 21		
	Carried forward	$ 2,542 36	$498,561 93	$ 260,896 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF FINANCE—*Continued.*			
	GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
149.	SUNDRY AGENCIES AND ASSESSORS, ETC.—*Continued.*			
	Brought forward	$ 2,542 36	$498,561 93	$ 260,896 74
	Construction of Fire-proof Vaults and Purchase of Safes for Protection of Public Property—*Continued.*			
	Stewart:			
	J. & J. Taylor	155 00		
	Victoria, Treasury Department:			
	J. & J. Taylor	502 00		
	Yale:			
	J. & J. Taylor	675 00		
	Total expenditure, Sundry Agencies and Assessors		3,874 36	
	Total expenditure, Government Agents and Assessors, etc.....			502,436 29
150.	OPERATION OF THE "AMUSEMENTS TAX ACT."			
	Salaries ($3,131.04):			
	Censor, allowance as Collector ...W. Hepburn		$ 200 00	
	Inspector .....C. N. Gowen		1,272 00	
	Clerks:			
	C. P. Brewer .....$235 88 H. C. H. Cannon ..$1,246 66		1,482 54	
	Temporary Assistance .....J. Bell		176 50	
			$ 3,131 04	
	Expenses ($2,586.73):			
	Office Supplies, etc.:			
	Canadian Express Co., $2.25; C.P.R. Telegraphs, $18.77; Dominion of Canada Guarantee & Accident Insurance Co., $17.50; Dominion Express Co., $11.20; King's Printer, $260.97; Nicholson, Ltd., $454.27; Pantages Theatre, $95.46; postage, $77.75; Southam Press, Ltd., $1,447.39; J. R. Tacey & Son, $2.25		2,387 81	
	Travelling Expenses:			
	N. R. Brown, $41.86; C. N. Gowen, $5; W. Hepburn, $43.55; W. H. Kelly, $108.51		198 92	
	Total expenditure, Operation of the "Amusements Tax Act".....			5,717 77
151.	PRINTING PUBLIC ACCOUNTS, ESTIMATES, ETC.			
	King's Printer		$ 3,871 30	
	Total expenditure, Printing Accounts, Estimates, etc.			3,871 30
152.	INTEREST ON SUITORS' FUNDS AND OFFICIAL GUARDIAN DEPOSITS.			
	Payments to sundry persons			6,465 58
153.	DELINQUENT EXTRA-MUNICIPAL SCHOOL TAXES.			
	Burnaby, $3,427.13; Courtenay, $1,199.14; Cranbrook, $9,920.50; Enderby, $432.06; Fernie, $643.94; Grand Forks, $2,596.38; Kaslo, $161.35; Mission, $4.45; Nelson, $3,377.19; Revelstoke, $1,199.46; Saanich, $1,531.56; Slocan, $632.40; Trail, $777.26; Vernon, $2,024.05		$ 27,926 87	
	Total expenditure, Delinquent School Taxes			27,926 87
154.	PREMIUM ON FIRE INSURANCE, FAIRVIEW WORKS.			
	Gillespie, Hart & Todd, Ltd.		$ 917 43	
	Total expenditure, Premium on Fire Insurance, Fairview Works....			917 43
	Carried forward			$ 808,231 98

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF FINANCE—*Continued.*		
	Brought forward		$ 808,231 98
155.	MISCELLANEOUS, NOT DETAILED IN ESTIMATES.		
	Printing, Advertising, etc., *re* Bonds: B.C. Financial Times, $446; Globe Printing Co., $191.25; The Islander, $150; Malone, Malone & Long, $1,007.90; Monetary Times, $100; MacLean Publishing Co., Ltd., $250; Resources Publishing Co., $180; Telegrams, $154.14; United Press, Ltd., $210	$ 2,689 29	
	Re Feed, etc., for Destitute Horses: E. M. Butchart, $2.05; Dixon Bros., $1,599.50; R. Erskine, $150; J. Hanbury & Co., Ltd., $177; C. Spencer, $739.19; pay-lists, $45.50	2,713 24	
	Dyking Assessment, *re* Tax Sales, etc.: Coquitlam District, $947.61; Maple Ridge District, $1,197.46; Matsqui District, $6.94; Pitt Meadows District, $586.96; Columbian Co., Ltd., $204; District Registrar, New Westminster, $14; King's Printer, $59.70; W. M. McCloy & Co., $25; J. A. G. Wilson, $5.30	3,046 97	
	Re Reception to Officers of Royal Canadian Squadron: Empress Hotel, $376.30; King's Printer, $42.80; L. Turner, $25; Victoria Auto Livery, Ltd., $20	464 10	
	General:		
	Corporation of City of New Westminster, improvement taxes....	4,435 27	
	T. R. Cusack, printing Budget Speech	475 00	
	Mrs. Ralph Smith, M.L.A., expenses *re* trip to Ottawa to attend meetings of the Council of Immigration	215 00	
	Provincial Child Welfare Association of British Columbia, grant *re* Third Annual Convention	1,000 00	
	Hon. J. H. Turner, income-tax on pension, 1920–21	569 08	
	B.C. Undertakers, *re* funeral, C. Antonio, Prince Rupert	31 50	
	King's Printer, licence forms, etc., various departments	1,028 85	
	G. Shipman, cost of commission on money-orders	2 10	
	H. Molyneaux, discount on Canadian currency in Alaska	12 50	
	Total expenditure, Miscellaneous, not detailed in Estimates		16,682 90
	STATUTORY EXPENDITURE.		
	"Revenue Act Amendment Act, 1920," Sec. 2.		
	Trustees of the Estate of J. B. Greaves, $2,700; Rand & Fowler, Ltd., $20.17; M. J. Williams, $54.68		2,774 85
	"Taxation Act," R.S.B.C. 1911, Sec. 155.		
	D. B. O'Neail, $11.95; P. Salinas, $45.64; P. W. Smith, $22		79 59
	"Real-estate Agents' Licensing Act, 1920," Sec. 23.		
	A. C. Campbell, $12.45; A. V. Macan, $48.45; King's Printer, $12.80.....		73 70
	"Taxation Act Amendment Act, 1919," Sec. 17.		
	J. Brent, $25.36; A. Brown, $16.82; B. T. Dane, 70c.; J. M. Dunn, $7.32; E. Etchepare, $46.02; L. H. Kenney, $2.25; A. C. Major, $11.52; T. E. Naish, $7.70; N. Neilson, $4.64; J. C. Rathbone, $1.75; J. F. Simmons, $51.55; Younghusband & Long-Innes, Estate of, $68.05		243 68
	"Pre-emptors' Free Grants Act Amendment Act, 1919," Sec. 3.		
	G. Barlow, $31.80; J. D. Boyd, $44.35; W. W. Boyd, $14.20; W. Bradford, $50.78; J. Brixton, $19; H. B. Burkholder, $9.55; L. C. Cleveland, $11.35; E. R. Cobb, $45.60; R. B. W. Eden, $24.92; E. Etchepare, $35.48; H. A. Fullerton, $4.50; W. J. Hogg, $10; E. P. Howell, $7.70; R. Jobson, $20.70; R. Johnson, $6.30; J. Keenan, $68.45; J. Kitson, $80; R. F. Knox, $20.26; F. A. Maxwell, $20.70; H. I. Middleton, $10.62; F. J. Powell, $6.90; C. J. Reid, $100; J. Ryan, $100; A. C. Smedley, $12.32; L. Tramblay, $31.60; T. van Dyk, $2.38; W. Wilkinson, $26.10; J. Wotton, $6.50; A. Young, $19.79		841 85
	Total expenditure, Department of Finance		$ 828,928 55

No. of Vote.	SERVICE.	Expended.
156.	**DEPARTMENT OF FISHERIES.**	
	Salaries ($9,172.10):	
	Assistant to the Commissioner ... J. P. Babcock ...	$ 3,332 85
	Inspector of Fisheries ... C. P. Hickman ...	1,698 00
	Clerk and Stenographer ... M. Egerton ...	1,020 00
	Stenographer ... D. Scott ...	30 00
	Salmon Investigator ... C. H. Gilbert ...	1,500 00
	Overseers and Inspectors:	
	J. H. Champion ... $300 00 — A. Saint ... $170 05	
	J. Eholt ... 75 00 — A. W. Stone ... 700 00	
	R. Gibson ... 110 50 — W. A. Wisley ... 235 70	1,591 25
		$ 9,172 10
	Expenses ($6,450.40):	
	Office Supplies, etc.:	
	J. P. Babcock, $8.90; B.C. Canning Co., Ltd., $63.25; B.C. Financial Times, $2; B.C. Telephone Co., Ltd., $62.15; D. S. Cameron, $2.60; C.P.R. Telegraph Co., $23.68; F. N. Clark, $127.20; F. H. Cooke, $120; D. Craig, $25.67; Dominion Express Co., $2.15; Electric Blue Print & Map Co., $15; G.N.W. Telegraph Co., $7.67; G.W.V.A. Year Book, $50; E. Harris, $13; E. S. Harris, $1; Industrial & Educational Publishing Co., Ltd., $1; King's Printer, $817.56; Lands Department, $2; J. Macmillan, $10; W. J. Nelson, $80; Pacific Fisherman, $6.25; Palo Alto Hardware Co., $25.54; postage, $74.24; E. G. Prior & Co., Ltd., $16.50; St. Mungo Cold Storage, $126.45; R. Stone, $4; Victoria Baggage Co., 75c. ...	1,688 56
	Travelling Expenses:	
	J. P. Babcock, $531.50; R. Gibson, $237.70; C. H. Gilbert, $16; C. P. Hickman, $523.26; Hon. W. Sloan, $37.55; A. W. Stone (travelling expenses and wages paid), $937.95; W. A. Wisley, $26.30 ...	2,310 26
	Collection of Fishery Taxes:	
	Akerberg, Thomson & Co., Ltd., $19.26; B.C. Canning Co., Ltd., $200; Dominion of Canada Guarantee & Accident Insurance Co., $9.50; Dominion Express Co., $1.35; C. P. Hickman, $100.41; Imperial Oil, Ltd., $128.90; W. R. Jaynes, $90; A. C. Minty (bonus), $100; Superintendent of Provincial Police (launch-hire), $1,074.50; Union Steamship Co., Ltd., $2.55; W. A. Wisley, $30.55 ...	1,757 02
	Seton Lake Hatchery:	
	J. B. Arthur, $653.15; J. F. Arthur, $36; Dominion Express Co., $1.45; C. Lodge, $1; C. A. Phair, $1; E. G. Prior & Co., Ltd., $1.96 ...	694 56
		$ 15,622 50
	STATUTORY EXPENDITURE.	
	"Revenue Act Amendment Act, 1920."	
	W. P. Bell ...	50 00
	Total expenditure, Department of Fisheries ...	$ 15,672 50
157.	**DEPARTMENT OF INDUSTRIES.**	
	Salaries ($7,242.33):	
	Industrial Commissioner ... D. B. Martyn (10 mos., 9 days)	$ 3,090 00
	Investigator ... R. Morrison ...	1,800 00
	Clerk and Stenographer ... G. D. Clements ...	840 00
	Stenographers:	
	E. Gibson ... $732 33 — M. T. Jewell ... $780 00	1,512 33
	Carried forward ...	$ 7,242 33

No. of Vote.	SERVICE.	Expended.	
157.	DEPARTMENT OF INDUSTRIES—*Continued.*		
	Brought forward	$ 7,242 33	
	Expenses ($9,233.83):		
	Office Supplies, etc.: Bradstreet Co., $75; B.C. Financial Times, $2; B.C. Telephone Co., Ltd., $175.25; C.P.R. Telegraphs, $100.13; Collector of Customs, $1.10; Colonist P. & P. Co., Ltd., $12; Dominion Express Co., $2.07; Dominion Government Telegraphs, $5.39; G.N.W. Telegraph Co., $41.76; T. N. Hibben & Co., $1.25; Journal of Commerce Bulletin, $16.95; King's Printer, $385.15; Macey-Abell Co., Ltd., $86; Monetary Times, $3; J. H. McVety, $11.83; postage, $134.42; Progress Publishing Co., Ltd., $177.50; Scott, Greenwood & Son, $2.99; Smith & Champion, $18; Technical Press, Ltd., $3; Thomas Publishing Co., $15; Times P. & P. Co., Ltd., $12; Vancouver Daily Sun, $5; Wrigley Directories, Ltd., $10	1,296 79	
	Travelling Expenses: G. D. Clements, $82.10; D. B. Martyn, $1,736.12; R. Morrison, $265.41; Hon. John Oliver, $14	2,097 63	
	Advisory Board: R. J. Burde, $82.80; W. Cochrane, $188.20; F. G. Dawson, $104.55; J. Kingham, $84; J. H. McVety, $385.83; J. E. W. Thompson, $60.55; Nichol Thompson, $48.51	954 44	
	Appraising and Investigation Fees: Empress Auto & Taxi Co., Ltd., $6; Foster & Barrett-Lennard, $180; McGraw-Hill Book Co., $11; Patent Office, Department of Trade and Commerce, Ottawa, $3.75; Scott, Greenwood & Son, $19.87; Nichol Thompson, $500; Returned Soldiers' Co-operative Mining Syndicate, $4,164.35	4,884 97	
	Total expenditure, Department of Industries		$ 16,476 16

NOTE.—For loaning operations under "Department of Industries Act, 1919," *see* Appendix B.

DEPARTMENT OF LANDS.

158.	MINISTER'S OFFICE.		
	Salaries ($9,442):		
	Minister ..... Hon. T. D. Pattullo	$ 6,250 00	
	Secretary ..... N. A. Watt	2,040 00	
	Clerk and Stenographer ..... I. A. Gill	1,152 00	
		$ 9,442 00	
	Expenses ($3,597.33):		
	Office Supplies, etc.: American Forestry Association, $7.17; B.C. Telephone Co., Ltd., $163.68; B.C. Veterans' Weekly, $2.50; Canadian Facts Publishing Co., 60c.; Canadian Forestry Association, $2; C.P.R. Telegraphs, $374.40; Colonist P. & P. Co., Ltd., $12; Dominion Government Telegraphs, $25.58; Fairplay, $1.50; Finance Publishers, Ltd., $2; Financial Post, $5; Globe Printing Co., $5; G.N.W. Telegraph Co., $66.54; E. S. Harris, 50c.; King's Printer, $14.30; Litchfield's, Ltd., $48.85; Monetary Times, $3; Nechako Chronicle, $2; News P. & P. Co., Prince Rupert, $6; Omineca Herald, $6; Pacific Ports, $7.50; postage, $76.24; Revelstoke Review Publishing Co., Ltd., $2.50; Saturday Night, $4; Times P. & P. Co., Ltd., $35.50; Vancouver Oil & Mining Record, $2; Vancouver Daily Province, $4; Vancouver Daily Sun, $4; Weiler Bros., Ltd., $135; The World, Ltd., $6	1,025 36	
	Travelling Expenses: Hon. T. D. Pattullo	2,571 97	
	Total expenditure, Minister's Office		$ 13,039 33
	Carried forward		$ 13,039 33

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LANDS—*Continued.*		
	Brought forward		$ 13,039 33
159.	GENERAL OFFICE.		
	Salaries ($32,329.10):		
	Deputy Minister	G. R. Naden	$ 4,320 00
	Assistant to Deputy Minister	C. B. Peterson	3,000 00
	Statistician	J. G. Smith	2,340 00
	Chief Clerk	W. H. Currie	1,900 00
	Property Clerk	C. W. Munslow	1,620 00
	Clerks:		
	W. S. Beckwith $1,380 00	J. R. Lewin $1,320 00	
	N. P. Blandy 1,452 00	W. Moore 1,720 00	
	C. J. Buddell 1,153 25	H. R. McIntyre 1,500 00	
	W. P. Hall 96 00	H. T. Renwick 1,452 00	
	S. C. Hawkins 954 00	P. T. Saunders 475 30	
	E. H. Henshall 1,452 00	G. I. Wallace 1,452 00	
	C. Hoult 870 00		15,276 55
	Stenographers:		
	V. E. V. Mesher $960 00	D. E. E. Rolls $780 00	
	E. G. McWilliam 870 00		2,610 00
	Junior Clerks:		
	E. Connorton $348 39	D. Permain $175 00	
	N. H. Grant 466 66	E. A. Walls 272 50	1,262 55
	Total expenditure, General Office Salaries		32,329 10
160.	LANDS BRANCH.		
	Salaries ($44,565.55):		
	General Administration.		
	Superintendent of Lands	H. Cathcart	$ 3,360 00
	Assistant Superintendent and Chief Clerk	N. Taylor	2,220 00
	Inspector of Lands	J. W. Smith	2,020 00
	Assistant Chief Clerk	D. H. R. Tuthill	1,900 00
	Accountant	H. E. Morris	1,900 00
	Crown-grant Clerk	C. E. Hopper	1,900 00
	Status Clerk	W. A. Robbins	1,900 00
	Clerks:		
	J. F. Beilby $1,720 00	E. J. Mellon $ 290 00	
	A. J. Briggs 1,440 00	D. B. McLaren 73 33	
	J. H. Buckett 920 30	W. J. Rant 1,632 00	
	R. E. Burns 1,272 00	A. B. Stewart 1,500 00	
	E. J. Dare 362 50	W. A. Turner 1,800 00	
	E. C. Dudley 1,196 00	G. Vallance 1,720 00	
	J. Hutchison 1,720 00	R. A. Waterson 1,452 00	
	E. Jesse 725 00		17,823 13
	Junior Clerk	C. V. Doane	540 00
	Stenographers:		
	D. Black $ 900 00	J. Ross $ 52 42	
	M. E. Earle 1,080 00	D. Wilkinson 780 00	
	V. McGill 930 00		3,742 42
	B.C. Soldiers' Settlement.		
	Superintendent	J. W. Clark	3,000 00
	Clerk	J. Mavor	2,340 00
	Clerk-Stenographer	M. A. Mellon	1,080 00
	Stenographer	K. Wilson	840 00
	Total expenditure, Lands Branch Salaries		44,565 55
	Carried forward		$ 89,933 98

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LANDS—*Continued.*		
	Brought forward		$ 89,933 98
161.	SURVEY BRANCH.		
	Salaries ($64,636.30):		
	General.		
	Surveyor-General	J. E. Umbach	$ 3,600 00
	Accountant	A. A. Watt	1,600 00
	Photostat Operator	W. Mulcahay	1,500 00
	Blue-print Operator	T. Jacklin	1,020 00
	Clerk	A. G. Lindsay	1,560 00
	Junior Clerk	G. C. Murray	50 00
	Stenographer	G. M. Rant	900 00
	Surveys Division.		
	Chief Draughtsman	F. O. Morris	2,640 00
	Draughtsmen:		
	W. J. Baile $1,740 00	H. de M. Mellin $1,740 00	
	T. Bamford 2,400 00	J. McEwan 1,272 00	
	A. Bennett 1,800 00	F. M. Phillips 1,775 00	
	A. W. Gelston 1,740 00	C. R. Strackers 1,720 00	
	J. Keys 1,440 00	A. G. Symonds 1,540 00	
	A. Lawrie 1,800 00	W. S. Taynton 1,380 00	20,347 00
	Apprentice Draughtsman	T. J. Wren	320 00
	Geographic Division.		
	Chief Geographer	G. G. Aitken	2,760 00
	Librarian	G. P. Goddard	2,220 00
	Draughtsmen:		
	A. D. Anderson $1,212 00	J. Macallan $1,500 00	
	A. R. Bamford 1,440 00	C. I. McKenzie 280 00	
	W. T. McN. Barrett 1,415 32	J. Ridley 1,800 00	
	E. Brown 1,080 00	R. H. Simmons 1,800 00	
	R. Egerton 1,300 00	W. G. Thorpe 1,479 17	
	W. G. H. Firth 1,824 52	C. F. Tildesley 1,576 29	
	A. L. Fraser 1,800 00	V. E. K. Wheatley 837 00	
	W. H. Hutchinson 1,620 00	H. M. Wright 2,020 00	22,984 30
	Map-mounter	E. Sturgeon	1,680 00
	Apprentice Draughtsmen:		
	W. B. Bredin $ 30 00	J. Kerr $480 00	
	E. P. Creech 420 00	D. Permain 105 00	1,035 00
	Messenger	W. Holman	420 00
	Total expenditure, Survey Branch Salaries		64,636 30
162.	WATER RIGHTS BRANCH.		
	Salaries ($86,097.73):		
	Comptroller of Water Rights and Consulting Engineer	E. A. Cleveland	$ 5,000 00
	Assistant to Comptroller	C. A. Pope	2,760 00
	Chairman, Board of Investigation	J. F. Armstrong	3,000 00
	Member, Board of Investigation	J. S. T. Alexander	3,000 00
	Law Clerk	J. E. Lane	2,520 00
	Superintendent of Construction	J. C. MacDonald	3,300 00
	Chief Engineer	E. Davis	3,000 00
	Office Engineer	E. G. Marriott	2,280 00
	Engineers:		
	G. Anderson $1,800 00	F. W. Knewstubb $2,080 00	
	W. J. E. Biker 2,760 00	E. P. McKie 1,800 00	
	D. W. Hodsdon 1,800 00		10,240 00
	Assistant Engineers:		
	W. Blane $1,740 00	W. B. Evans $1,800 00	3,540 00
	Senior Draughtsman	E. T. Hodgkinson	1,900 00
	Carried forward		$ 40,540 00 $ 154,570 28

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF LANDS—*Continued.*			
162.	WATER RIGHTS BRANCH—*Continued.*			
	Brought forward		$ 40,540 00	$ 154,570 28
	Salaries—*Continued.*			
	Draughtsmen:			
	G. R. Ford $1,300 00	A. G. Hatton $1,720 00		
	E. P. Girdwood 1,500 00	C. W. Sanders 1,660 00		
	J. E. Kenny 1,660 00	R. H. White 1,600 00		
	A. Long 1,780 00	J. A. Wickson 1,187 50		
	R. H. Lowry 1,720 00		14,127 50	
	Chief Clerk — F. W. Reeves		1,900 00	
	Clerks:			
	S. F. Banks $1,500 00	N. J. Ross $1,660 00		
	K. R. F. Denniston 1,650 78	H. A. Tomalin 54 14		
	V. M. Gallon 1,660 00	C. S. Thompson 1,660 00		
	J. R. Mountain 1,600 00	C. R. Scharff 1,500 00		
	A. Paton 1,452 00		12,736 92	
	Stenographers:			
	J. M. Carlyle $779 04	G. Mansfield $840 00		
	M. Dunn 780 00	C. Notman 840 00		
	H. F. Hinder 585 00	A. M. Wolfe 232 50		
	D. Macklin 900 00		4,956 54	
	Junior Clerk — A. B. Food		600 00	
	District Engineers:			
	F. W. Groves $1,610 00	O. F. D. Norrington $2,620 00		
	H. B. Hicks 2,520 00	C. Varcoe 2,760 00	9,510 00	
	Assistant District Engineer — A. D. Marshall		1,900 00	
			$ 86,270 96	
	By cash		173 23	
	Total expenditure, Water Rights Branch Salaries			86,097 73
163.	FOREST BRANCH.			
	Salaries ($182,862.09):			
	Chief Forester (7 mos.) — M. A. Grainger		$ 2,345 00	
	Chief Forester (5 mos.) — P. Z. Caverhill		1,675 00	
	Assistant Chief Forester — H. R. Christie		2,700 00	
	Forester (9 mos.) — L. R. Andrews		2,475 00	
	Forester (2 mos.) — R. C. St. Clair		500 00	
	Lumber Trade Commissioner — W. Turnbull		3,120 00	
	Asst. Lumber Trade Commissioner — W. Robertson		2,249 00	
	Supervisor — F. A. MacDonald		1,800 00	
	Assistant Foresters:			
	C. S. Cowan $2,640 00	F. McVickar $2,035 00		
	H. K. Robinson 2,700 00		7,375 00	
	Royalty Inspector — S. W. Barclay		2,520 00	
	Railway Inspector — S. W. Brown		2,520 00	
	Assistant Royalty Inspector — W. E. Pidcock		2,000 00	
	Accountant — N. F. Pite		2,220 00	
	Forest Assistants:			
	C. L. Armstrong $1,519 35	L. S. Hope $1,415 00		
	J. M. Gibson 1,300 65	C. D. Orchard 1,519 35	5,754 35	
	Chief Clerk — J. Hoy		2,400 00	
	Chief Draughtsman — W. H. Stokes		1,900 00	
	Draughtsmen:			
	E. Browne $ 14 33	W. L. Thomas $1,800 00		
	J. C. Ciceri 875 00	A. E. Thompson 1,525 50		
	A. Danielson 1,660 00	W. W. Worthington 140 00		
	H. P. Rutter 1,620 00		7,634 83	
	Junior Draughtsmen:			
	G. Murray $167 75	H. Sherwood $1,152 00	1,319 75	
	Ranger — L. A. Rees		60 45	
	Carried forward		$ 52,568 38	$ 240,668 01

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LANDS—*Continued.*			
163.	FOREST BRANCH—*Continued.*			
	Brought forward			$ 52,568 38 $ 240,668 01
	Salaries—*Continued.*			
	Clerks:			
	W. Bollaud	$1,720 00	W. F. Loveland	$1,900 00
	H. N. Boss	1,500 00	A. G. Mumford	1,900 00
	W. T. Bridge	1,452 00	A. H. Nunn	1,500 00
	J. L. Colbert	1,600 00	W. R. Sayer	1,720 00
	G. V. Cuppage	1,600 00	G. W. A. Shadwell	553 32
	S. D. Featherston	968 00	R. L. Scoble	1,660 00
	S. M. Gillespie	116 00	H. H. Smith	1,720 00
	H. E. Gillingham	778 06	R. M. Taylor	1,540 00
	H. M. Hall	1,660 00	T. Taylor	1,152 00
	R. M. Kierstead	45 93	E. A. Walls	600 00 25,685 31
	Stenographers:			
	A. P. Archibald	$ 880 00	L. Marbouef	$ 960 00
	A. Bray	780 00	M. S. McDonald	1,080 00
	E. Harker	840 00	J. McKay	840 00
	W. V. Jagers	1,020 00	W. Ross	840 00
	M. Langley	850 63		8,090 63
	Messengers:			
	W. B. Bredin	$120 00	D. Permain	$ 60 00
	C. F. Coleman	71 61	W. G. Robson	407 13
	E. Connorton	70 00		728 74
	Southern Coast.			
	Vancouver.			
	Forester (7 mos.)		P. Z. Caverhill	2,100 00
	Forester (3 mos.)		L. R. Andrews	900 00
	Assistant Foresters:			
	F. McVickar	$ 185 00	R. V. Stuart	$2,400 00
	R. C. St. Clair	2,200 00		4,785 00
	Chief Clerk		J. Mackay	2,080 00
	Assistant Recorder of Scaling		L. H. Archer	1,020 00
	Draughtsman		G. H. Birkenhead	1,500 00
	Clerks:			
	J. S. Asson	$1,452 00	M. Hicks	$ 75 00
	Wm. Black	1,362 90	E. Howe	425 00
	L. Creelman	525 00	C. Johnson	840 00
	E. P. Fox	1,600 00	J. N. Johnstone	900 00
	B. M. Gavin	960 00	H. Leyster	900 00
	C. E. Henderson	648 39	D. McDougall	1,437 50 11,125 79
	Supervisors:			
	W. Black	$2,160 00	F. A. MacDonald	$ 360 00
	W. R. Flumerfelt	2,160 00	J. G. MacDonald	2,280 00 6,960 00
	Rangers:			
	W. Byers	1,680 00	E. Hill	$1,500 00
	W. Carey	1,800 00	J. A. Mahood	1,800 00
	D. Cramer	1,366 94	J. Mottishaw	1,161 29
	J. M. Daniels	1,900 00	J. R. Noot	1,900 00
	G. L. Davies	1,900 00	H. Smith	1,500 00
	J. A. Fairbanks	1,900 00	I. G. Sutherland	197 58
	A. B. Fraser	1,302 42	A. R. Johnston	125 00
	I. S. Grant	1,391 66	P. Sweatman	1,375 00
	R. C. Gritten	1,680 00	J. Thompson	1,800 00
	H. P. Hart	1,800 00	A. H. Waddington	1,500 00
	W. G. Henning	100 00	T. H. Wilkinson	338 71 30,018 60
	Stenographers:			
	C. D. Barton	$442 74	W. Spouse	$ 23 83
	E. M. Bird	455 00	N. Sullivan	770 00
	E. M. Collins	332 50	E. M. Sutherland	870 00
	Carried forward			$147,562 45 $ 240,668 01

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF LANDS—*Continued.*		
163.	FOREST BRANCH—*Continued.*		
	Brought forward	$147,562 45	$ 240,668 01
	Salaries—*Continued.*		
	Vancouver—Continued.		
	Southern Coast—Continued.		
	Stenographers—*Continued.*		
	N. Graddon .....$686 00 D. M. Trapp $780 00		
	N. Neddon 327 42	4,687 49	
	Telephone Lineman .....W. J. Sutherland	1,380 00	
	Export Patrolman .....A. C. Rudland	1,260 00	
	Storekeeper .....R. H. Tebb	1,454 16	
	Southern Interior		
	(a.) Vernon.		
	District Forester .....A. E. Parlow	2,460 00	
	Assistant District Forester .....M. V. Allen	2,020 00	
	Clerk .....J. Keech	1,500 00	
	Rangers:		
	H. Oldham .....$ 375 00 E. J. Thomas $1,500 00		
	J. W. McCluskey .. 1,900 00 H. H. Thomas 337 77	4,112 77	
	(b.) Nelson.		
	District Forester .....E. B. Prowd	2,520 00	
	Forest Assistants:		
	J. M. Gibson .....$320 00 A. E. Pickford $1,050 00	1,370 00	
	Clerk .....M. I. Elliott	1,152 00	
	Check Scaler .....J. Milroy	1,575 00	
	Rangers:		
	A. M. Black .....$1,528 70 A. E. Noble $1,680 00		
	J. P. Griffiths ..... 1,680 00 J. T. Price 1,900 00		
	H. S. Nelson 1,900 00	8,688 70	
	(c.) Cranbrook.		
	District Forester .....N. Moore	2,400 00	
	Supervisor .....J. Milroy	525 00	
	Clerks:		
	W. B. McConnell ....$448 33 E. McPhee $960 00	1,408 33	
	Rangers:		
	G. McParlon .....$1,680 00 G. Schupe $1,500 00		
	F. H. Pym ..... 1,900 00 G. B. Watson 1,900 00		
	J. Sanderson 1,377 00	8,357 00	
	Northern Interior.		
	(a.) Prince George.		
	District Forester .....P. S. Bonney	2,700 00	
	Supervisors:		
	T. W. Brewer .....$1,920 00 W. L. Muir $1,845 71	3,765 71	
	Clerks:		
	F. L. Lawrence .....$374 71 M. Milligan $450 00	824 71	
	Stenographer .....C. McPherson	140 00	
	Rangers:		
	G. Forbes .....$1,500 00 W. Lowry .....$ 625 00		
	E. F. W. Heath ... 1,680 00 J. E. Matheson 1,631 94		
	A. Hunter 500 00	5,936 94	
	(b.) Cariboo.		
	District Forester .....P. Sharkey	2,400 00	
	Clerk .....D. W. Hudson	1,056 00	
	Carried forward	$211,256 26	$ 240,668 01

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF LANDS—*Continued.*		
163.	FOREST BRANCH—*Continued.*		
	Brought forward	$211,256 26	$ 240,668 01
	Salaries—*Continued.*		
	Northern Interior—Continued.		
	(b.) Cariboo—Continued.		
	Rangers:		
	A. H. Black .....$ 161 29 R. Eden $440 00		
	J. D. Boyd ..... 1,260 00 G. M. Wood 435 48		
	W. W. Boyd 500 00	2,796 77	
	(c.) Kamloops.		
	District Forester .....G. P. Melrose	2,400 00	
	Assistant District Forester .....C. J. Haddon	1,920 00	
	Clerks:		
	D. W. Hudson .....$96 00 C. J. Reading $1,075 00	1,171 00	
	Rangers:		
	A. P. Horne .....$ 502 54 H. A. Powell $1,680 00		
	W. E. Noble 1,800 00	3,982 54	
	Prince Rupert.		
	Headquarters.		
	District Forester .....E. C. Manning	2,700 00	
	Forest Assistant .....F. D. Mulholland	846 77	
	Clerk .....C. L. Youngman	1,600 00	
	Stenographers:		
	R. A. Dyer ..... 1,080 00 A. Walker $750 00		
	M. Pringle ..... 1,080 00 A. Wood 116 29	3,026 29	
	(a) Coast.		
	Supervisor .....R. H. Chestnut	2,160 00	
	Supervisor's Assistants:		
	A. H. Mogridge ....$1,383 30 A. M. Tyson $250 00	1,633 30	
	Rangers:		
	D. Archie .....$ 720 00 W. G. Henning $1,125 00		
	A. M. Charleson ... 1,362 50 W. Leighton 600 00		
	J. B. Foley ..... 250 00 T. L. Williams..... 1,326 60	5,384 10	
	(b.) Hazelton.		
	Supervisor .....J. Turnbull	2,100 00	
	Ranger .....E. Hyde	1,500 00	
	Grazing.		
	Grazing Commissioner .....T. P. Mackenzie	3,720 00	
	Assistant Grazing Commissioner ..G. V. Copley	1,920 00	
	Stenographers:		
	E. M. Streeter .....$750 00 R. M. Taylor $150 00	900 00	
	Toronto Office.		
	Lumber Trade Commissioner .....L. L. Brown	2,580 65	
	Clerk .....M. M. Little	1,200 00	
		$254,797 68	
	Less charged to Forest Protection Fund .. $ 56,262 44		
	Less charged to Lumber Trade Extension .. 10,200 65		
	Less charged to Scaling Fund 5,472 50		
	———	71,935 59	
	Total expenditure, Forest Branch Salaries		182,862 09
	Carried forward		$ 423,530 10

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF LANDS—*Continued.*

Brought forward ..... $ 423,530 10

164. GENERAL.

Temporary Assistance ($18,782.47):

E. Arnold	$ 81 35	R. H. Leighton	$ 120 00		
M. A. Astley	182 42	J. Long	480 00		
G. Baurle	750 00	R. Matthews	197 50		
A. L. Blake	123 77	F. A. Miller	110 00		
J. B. Borgadus	3 00	J. H. Miller	440 00		
W. W. Boyd	240 00	J. M. Miller	886 94		
W. B. Bredin	4 84	W. Millar	1,052 42		
E. Brown	75 01	M. Milligan	120 00		
R. Cameron	480 00	D. A. McIntosh	660 00		
D. Carew	6 00	K. McKinnon	10 00		
V. Coates	26 85	F. A. McKirdy	600 00		
J. B. Conway	720 00	A. Nelson	660 00		
L. Creelman	15 00	H. Oldham	330 00		
M. Cuthbert	24 45	W. L. Paddon	660 00		
F. Dawson	12 58	W. M. Palethorpe	6 00		
E. J. Dougherty	104 17	A. M. Patterson	22 50		
P. I. Downing	232 74	H. Perkins	81 00		
D. Drummond	49 68	C. Perrin	301 61		
H. W. Eades	95 29	E. M. Reid	39 84		
E. M. Earle	255 00	J. Ross	272 18		
R. Eden	200 00	J. Russell	120 00		
C. R. D. Ferris	325 00	J. H. Sadler	887 10		
G. H. Franklin	34 84	N. Santer	195 00		
J. K. Frost	750 00	H. W. Sharpe	750 00		
R. Gillespie	461 32	T. A. Simmons	1,041 33		
W. Grundall	6 00	G. H. Smith	720 00		
W. Halliday	45 00	B. A. Spencer	139 38		
H. F. Hinder	36 25	C. E. Steacy	144 00		
J. Jardine	720 00	A. Stratton	58 66		
F. V. Jones	18 00	H. Turnbull	54 00		
W. W. Josephs	220 00	A. Walker	150 00		
A. E. Lane	4 17	T. H. Wilkinson	383 06		
F. E. Laurence	167 22	J. B. Willcock	660 00		
E. A. Lee	90 00	A. Wood	20 00	$ 18,932 47	
Less charged to Scaling Fund				150 00	
Total expenditure, Temporary Assistance					18,782 47

165. EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES).

Office Supplies, etc. ($61,410.83):

Agriculture Department, $4; E. G. Allen & Son, Ltd., $3.18; American Lumberman, $4.25; American Railway Express Co., $44.73; American Sheep Breeder, 60c.; A. P. Anderson, $4.89; K. Anderson, 80c.; W. M. Anderson, $2.25; Artistic Wire & Iron Works, $11; Atlantic Monthly Co., 39c.; Avenue Jewellers, $1; G. A. Baurle, $2.08; Beattie-Noble, Ltd., $12.50; Bogardus-Wickens, Ltd., $1.40; A. K. Bourchier, $6.50; W. W. Boyd, $3; Breeder's Gazette, $6.70; B.A. Paint Co., Ltd., $8.76; B.C. Sheet Metal Works, $17.50; B.C. Telephone Co., Ltd., $1,245.03; Brooks-Corning Co., Ltd., $75.60; Burroughs Adding Machine of Canada, Ltd., $3.25; J. F. Campbell, $50; Campbell Storage Co., $1; Canada Drug & Book Co., $3.95; Canadian Auto & Electrical Supply Co., $8.35; Canadian Bank of Commerce, $49.38; Canadian Forestry Association, $4; Canadian General Electric Co., Ltd., $32.30; C.P.R. Co., $1,762.68; Carter Electric Co., Ltd., $153; Chemical

Carried forward ..... $ 442,312 57

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF LANDS—*Continued.*

165. EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES)—*Continued.*

Brought forward ..... $ 442,312 57

Office Supplies, etc.—*Continued.*

Catalogue Co., $6.95; City Transfer & Warehouse Co., $11; Commercial Journal Co., $5; Clarke & Stuart Co., Ltd., $1,996.07; J. L. Colbert, $2.84; Collector of Customs, $8.28; J. H. Collins, $36.75; Colonist P. & P. Co., Ltd., $20.25; Commercial Photo Co., $240; Computer Manufacturing Co., $32.14; Constable & Co., Ltd., $3.67; Cooper-Hewitt Electric Co., $8.53; L. Cornelissen & Son, $20.21; G. M. Cornwall, $3.50; Cranbrook Courier, $3.50; Cranbrook Electric Co., $40; Cranbrook Exchange, $19.70; Cranbrook Herald, $2.50; Cranbrook Sash & Door Co., $34.08; Creston Power, Light & Telephone Co., $18; L. J. Crosina, $42; G. Crowther, $15; R. Cunningham & Son, Ltd., $30.20; F. G. Dawson, Ltd., $6.44; Department of Commerce, Washington, U.S.A., $7.97; Department of Printing & Stationery, Ottawa, $1.25; Diggon's, $2.50; Dixon & Murray, Ltd., $33.41; Dominion Blue Print & Map Co., $48.85; Dominion of Canada Guarantee & Accident Insurance Co., $92.19; Dominion Express Co., $45.47; Dominion Government Telegraphs, $1,074.95; Duncan Garage, Ltd., $5.90; Duplicator Manufacturing Co., $412.33; R. B. W. Eden, $6; Electric Blue Print & Map Co., $2,681.44; Electric Supply & Contracting Co., Ltd., $110.92; Fink Mercantile Co., $10; H. Fleming, $24.05; A. N. Fletcher, $1.50; Fort George Drug Co., $2.25; Fort George Telephone & Electric Co., $30; M. and H. A. Fox, $40; G. W. Frazer, $15; W. S. Fraser & Co., Ltd., $67.87; Fraser & Mackenzie, $14.95; J. K. Frost, $17.50; L. Gallazin, $2; Gault Bros., Ltd., $582.10; Government Agent, Fort George, $6.50; F. Goertz, $44.65; Graham Electric Co., $59.05; G.T.P. Telegraph Co., $282.14; G.N.W. Telegraph Co., $266.93; Goodman Supply Co., $1.65; Green Jewellery Store, $4; Green Bros., Burden & Co., $966.95; H. Greensfelder, 75c.; F. W. Groves, $11.23; W. Hargreaves, 50c.; Harrison & Co., $15.39; G. H. Hewitt Co., Ltd., $8.75; T. N. Hibben & Co., $11.35; H. B. Hicks, $11.85; G. Hirst Co., $15.85; Houghton & Evans, $8.95; Howe & McNulty, 80c.; J. T. Huchcroft, $48.72; Hudson's Bay Co., $10.88; Hughes-Owens Co., Ltd., $3,109.17; J. G. Hutchcroft, $2.50; C. Hymans, $13; C. E. Imeson & Co., $4.55; Inland Revenue, $17; Instruments, Ltd., $15.50; Island Blue Print & Map Co., $3; W. V. Jagers, $3.04; Jamieson Engineering Co., $35; F. Jeune & Bro., Ltd., $214.19; Kalamazoo Loose Leaf Binder Co., $3.13; Kamloops Sash & Door Factory, $1.75; Kamloops Telegram, $2.50; J. Keech, $35.03; Kelowna Courier, $19.15; W. J. Kerr, $1.50; G. Key-Jones, $1.65; King's Printer, $27,134.03; Kootenay Telephone Lines, Ltd., $164.25; Leith Bros., $11.50; Lemon-Gonnason Co., Ltd., $977.77; Library of Congress, $43.19; H. O. Litchfield, $2; Little & Taylor, $4; R. E. Lodwick, $41.45; London & British North America Co., Ltd., $5; W. Lowry, $6.70; Lufkin Rule Co. of Canada, Ltd., $257.82; Lumber World Review, $10.64; J. G. Macdonald, $10; Macey-Abell Co., Ltd., $2,830.38; P. J. Mackay, $174.45;

Carried forward ..... $ 442,312 57

No. of Vote	SERVICE.	Expended.

DEPARTMENT OF LANDS—*Continued.*

165. EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES)—*Continued.*

Brought forward ..... $ 442,312 57

Office Supplies, etc.—*Continued.*

Macmillan Co. of Canada, Ltd., $7.90; H. Main, $3.65; A. R. Mallory, $15; F. E. Manahan, $15.25; Marlatt & MacKenzie, $16.44; Martin Bros., $5; E. B. Marvin & Co., $48.75; A. H. Maynard, $16.35; F. Mellor, $22.50; Mellor Bros., Ltd., $9.25; Melrose Co., Ltd., $13.65; J. E. Mesher, $40; Model Furniture Co., $16; A. H. Mogridge, $16.10; R. M. Moore & Co., $35.25; H. B. Morley Co., $15.10; J. Morrison, $14.40; J. MacKay, $9.78; W. A. MacKeen, 75c.; H. C. MacLean, Ltd., $1.50; W. T. McArthur & Co., 18c.; A. McGregor, $64.30; McLennan, McFeely & Co., Ltd., 76c.; M. C. McKay, 90c.; McRae Bros., Ltd., $55.85; McTavish Bros., $234.80; National Drug & Chemical Co. of Canada, Ltd., $244.26; National Wool Grower, 52c.; Nelson Studio, $1.10; News P. & P. Co., Prince Rupert, $2.20; Noiseless Typewriter Co., $228.55; F. W. Nolte & Co., $72; F. Norris & Sons, $85.75; Northern Electric Co., Ltd., $46.46; Northern Hardware Co., $12.68; Northern Supply, $1.75; Office Specialty Manufacturing Co., Ltd., $330.63; Okanagan Building & Trading Co., $2.25; Okanagn Telephone Co., Ltd., $294.15; Oliver Typewriter Co., $1,159.77; Pacific Coast Lumberman, $6.70; P.G.E. Railway Co., $31.88; Panama News Stand, $4.75; F. Parks & Co., $22.44; F. E. Payson, 63c.; C. F. Pease Co., $139.47; Penticton Hardware Co., $7.10; Penticton Saddlery Co., $1.25; Penticton Stationery Stores, 85c.; A. E. Pickford, $4.90; Portland Canal News, $5; postage, $6,221.28; G. Powell & Sons, $3.50; Powell River Co., Ltd., 25c.; A. E. Price, $9.05; Price & Cousins, $3.55; Prince George Drug Co., $6.65; Prince Rupert City Telephone, $47; E. G. Prior & Co., Ltd., $60.86; Progress Publishing Co., Ltd., $4.20; E. B. Prowd, $3.90; Public Works Department, $1,457.30; Ramsay's Machine Works, $3.10; J. G. Ramsey & Co., Ltd., $748.99; Reeves & Sons, Ltd., $40.65; C. C. Reid, $1; Reliable Transfer Co., $33.97; Remington Typewriter Co., Ltd., $31.90; Revelstoke Review Publishing Co., Ltd., $2.64; Revolute Machine Co., $85; Rexall Store, $1.10; W. Rider & Son, Ltd., $1.18; G. Routledge & Sons, Ltd., $2.19; Royal Scottish Arboricultural Society, 74c.; Rush Transfer & Storage Co., $3.25; C. W. Sanders, $25; J. Sanderson, $7; R. S. Sargent, Ltd., $2.50; R. H. Seabrook, $3; P. Sharkey, $4.87; A. F. Shepherd, $5; F. Sipnong, $6; E. D. Sismey, $2.15; C. H. Smith & Co., $10.90; J. Fyfe Smith Co., Ltd., $2; Smith & Champion, $31.25; Smith, Davidson & Wright, Ltd., $344.93; Society of American Foresters, $9.62; D. Spencer, Ltd., $33.90; L. M. Squibb, $13.70; Standard Furniture Co., $6; Standard Sentinel, $2.50; Stationery Store, Penticton, 50c.; Steel Equipment Co., $10; Steen & Longwill, $1.50; J. S. Stevens, $4.50; Students' Book Department, Toronto University, $2.50; Superintendent of Documents, Washington, U.S.A., $7.75; S. H. Sutton, $100; Swannell & Noakes, $7.50; A. C. Taylor & Co., $18.50; The Timberman, $10.69; Times P. & P. Co., Ltd., $107.06; W. R. Trench, $7.50; Trites-Wood Co., Ltd., $9.50; Turner, Beeton & Co., Ltd., $66.05; Typewriter Service Co., $5.75; Union Steamship Co.

Carried forward ..... $ 442,312 57

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LANDS—*Continued.*			
165.	EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES)—*Continued.*			
	Brought forward			$ 442,312 57
	Office Supplies, etc.—*Continued.* of B.C., Ltd., 55c.; United Typewriter Co., $1,123.45; University Book Store, $4.25; F. Unwin, Ltd., $14.40; A. Urquhart, 50c.; Vancouver Daily Province, $12; Vancouver Daily Sun, $5; Vancouver Map & Blue Print Co., 25c.; Vancouver Stationers, 75c.; Vernon Hardware Co., Ltd., 80c.; Victoria Numerical Telephone Locator, $3; Victoria Book & Stationery Co., Ltd., $124.88; Victoria Gas Co., Ltd., $28.64; Victoria Tent Factory, $38.85; A. Vogee, $35; C. L. Wain, 90c.; Waites & Knapton, $6.10; Wall & Teusz, $9; T. H. Waters & Co., $10.75; F. E. Wedemeyer, $7.50; Weiler Bros., Ltd., $6; West Coast Lumbermen's Association, $31; Western Lumberman, $4.50; Western Pine Manufacturers' Association, $1.16; Western Specialty, Ltd., $46.61; F. Whitehead, $14; Wilcox & Hall, $2.28; W. H. Wilkinson, $225; P. B. Willits & Co., $6; G. M. Wood, $6.50; Wood, Vallance & Leggat, Ltd., $93.05; W. W. Wrathall, $5.90; F. S. Wright, $10; Wrigley Directories, Ltd., $100; Yale University Press, $6.27	$ 63,406 97		
	By cash	1,996 14		
	Total expenditure, Office Supplies, etc.		$ 61,410 83	
	Travelling Expenses ($46,332.66):			
	General Office:			
	G. R. Naden	$ 195 10		
	Lands Branch:			
	H. Cathcart, $87.07; J. G. Smith, $299; J. W. Smith, $560.29	946 36		
	Survey Branch:			
	G. G. Aitken, $17.25; G. R. Naden, $16.42; J. E. Umbach, $283.40	317 07		
	Water Rights Branch:			
	J. S. T. Alexander, $318.90; J. F. Armstrong, $383.90; W. J. E. Biker, $809.53; W. Blane, $26.45; E. A. Cleveland, $1,052.84; E. Davis, $632.62; W. B. Evans, $75.60; F. W. Groves, $363.81; A. G. Hatton, $129.65; H. B. Hicks, $538.02; D. W. Hodsdon, $49.21; F. W. Knewstubb, $1,730.86; J. E. Lane, $99.40; P. J. Mackay, $93.55; E. G. Marriott, $12.81; O. F. D. Norrington, $1,026.87; C. W. Sanders, $398.05; C. Varcoe, $310.06	8,052 13		
	Forest Branch:			
	M. V. Allen, $197.20; L. R. Andrews, $487.25; C. L. Armstrong, $595.02; J. S. Asson, $23.80; S. W. Barclay, $287.20; D. Barton, $13.25; G. A. Baurle, $15.75; G. H. Birkenhead, $5.57; A. H. Black, $38; A. M. Black, $1.15; W. Black, $117.59; J. H. Blake, $85.95; P. S. Bonney, $495.76; J. D. Boyd, $63.80; W. W. Boyd, $461.75; T. W. Brewer, $84.44; L. L. Brown, $5.55; E. P. Burchett, $25.25; W. Byers, $439.51; R. Cameron, $246.55; W. N. Campbell, $144; W. Carey, $185.45; P. Z. Caverhill, $795.86; A. M. Charleson, $174.45; R. H. Chestnut, $209.35; H. R. Christie, $516.55; J. B. Conway, $268.70; G. V. Copley, $722.60; D. Cran, $234.90; J. M. Daniels, $445.12; G. L. Davies, $430.80; D. O. Dighton, $34.45; E. J. Dougherty,			
	Carried forward	$ 9,510 66	$ 61,410 83	$ 442,312 57

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LANDS—*Continued.*			
165.	EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES)—*Continued.*			
	Brought forward	$ 9,510 66	$ 61,410 83	$ 442,312 57
	Travelling Expenses—*Continued.*			
	Forest Branch—*Continued.*			
	$2.50; D. Drummond, $6.30; R. B. W. Eden, $753.75; J. A. Fairbank, $760.57; W. Fawcett, $99.75; W. R. Flumerfelt, $505.78; G. Forbes, $110.55; E. P. Fox, $21.93; A. B. Fraser, $326.70; J. K. Frost, $61.65; J. M. Gibson, $405.40; G. Gilchrist, $24.75; R. Gillespie, $133; M. A. Grainger, $282; I. S. Grant, $260.64; J. P. Griffith, $31[illegible]53; R. Gritten, $1,171.81; C. J. Haddon, $162.80; H. M. Hall, $58.75; H. P. Hart, $378.55; E. F. W. Heath, $330.55; W. G. Henning, $287.35; E. Hill, $329.40; L. S. Hope, $123.85; A. P. Horne, $220.65; D. W. Hudson, $49.20; A. Hunter, $53.30; E. Hyde, $506.78; F. E. Laurence, $7.15; R. H. Leighton, $281.75; J. Long, $219.45; W. Lowry, $215.20; J. G. Macdonald, $84.83; D. Macdougall, $60.41; J. Mackay, $12.90; T. P. MacKenzie, $1,281.02; C. D. MacKinnon, $10.65; J. A. Mahood, $176.78; E. C. Manning, $612.89; J. E. Mathieson, $311.10; G. P. Melrose, $689.26; J. H. Miller, $288.52; J. W. Miller, $3.80; W. Millar, $403.95; M. H. Milligan, $57.50; J. Milroy, $1,477.42; A. H. Mogridge, $594.20; N. Moore, $783.60; J. Mottishaw, $2.50; W. L. Muir, $201.77; F. D. Mulholland, $284.95; F. A. MacDonald, $144.90; J. G. MacDonald, $533.82; J. W. McCluskey, $135.65; W. B. McConnell, $85; D. A. McIntosh, $80.80; C. D. McKinnon, $8.60; F. A. McKirdy, $301.45; G. E. McParlon, $243.80; F. McVickar, $106.27; A. Nelson, $118.95; H. S. Nelson, $407; M. Nielson, $9.60; A. E. Noble, $242.75; W. E. Noble, $524.16; J. R. Noot, $361.85; F. O'Grady, $131.65; H. Oldham, $212.80; C. D. Orchard, $373.25; W. L. Paddon, $504.70; A. E. Parlow, $707.21; C. Perrin, $155.57; A. E. Pickford, $108.35; W. E. Pidcock, $390.70; H. A. Powell, $374.46; J. T. Price, $261.55; E. B. Prowd, $219.94; F. H. Pym, $98.45; F. Quinn, $27; C. J. Reading, $18.45; H. K. Robinson, $190.30; A. C. Rudland, $372.55; J. Russell, $38.95; R. C. St. Clair, $429.77; J. Sanderson, $196.70; G. Schupe, $194; P. Sharkey, $634.73; H. W. Sharpe, $409.05; J. E. Shields, $21.50; G. H. Smith, $418.76; R. V. Stuart, $539.10; W. J. Sutherland, $184.30; P. Sweatman, $243.35; R. H. Tebb, $45.75; E. J. Thomas, $348; J. Thompson, $19.11; J. Turnbull, $283.15; A. M. Tyson, $218.39; A. H. Waddington, $225.39; G. B. Watson, $218.90; E. E. White, $9; T. H. Wilkinson, $377.95; T. L. Williams, $286.55; J. B. Willcock, $192.62; W. Wilson, $20.75	36,665 26		
	Soldier Settlement Board:			
	J. W. Clark	481 95		
		$ 46,657 87		
	By cash	325 21		
	Total expenditure, Travelling Expenses		46,332 66	
	Carried forward		$107,743 49	$ 442,312 57

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LANDS—*Continued.*		
165.	EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES)—*Continued.*		
	Brought forward	$107,743 49	$ 442,312 57
	Construction, Purchase, Maintenance of Launches and Autos, including Subsistence of Crews, etc.:		
	Salaries ($12,761.86):		
	Engineers:		
	J. C. Bowden $110 00 — F. O'Grady ... $660 00		
	R. A. Caddell 660 00 — H. Orr 681 33		
	M. Campbell.. 600 00 — W. B. Penney . 720 00		
	G. S. Fee ... 7 50 — P. Price 167 14		
	H. B. Gates.. 90 00 — R. J. Rudd 560 00		
	D. Greenwood 63 87 — F. D. Smythe.. 417 50		
	G. Lawson .. 600 00 — H. Temple 512 90		
	H. A. Linberg 52 26 — E. E. White .. 568 71		
	A. R. Mallory 16 50 — N. K. Williams 540 00		
	J. McKay ... 610 32 — W. W. Wire... 476 13	$ 8,114 16	
	Cooks:		
	A. H. Bromley $125 89 — A. McQuilken ..$510 00		
	J. E. du Bois 4 84 — H. Wilson 80 00		
	W. Friel .... 7 26 — A. R. Woodhouse 300 00		
	M. Inskipp .. 142 74	1,170 73	
	Boat-builders:		
	J. M. Craig..$771 36 — N. J. Heavenor $900 00		
	W. Farr .... 165 00 — A. Neilson 31 61		
	A. L. Hagen. 235 00	2,102 97	
	Labourer .....P. Hanrahan	604 00	
	Assistant Ranger .....W. Fawcett	450 00	
	Mechanical Inspector ....J. H. Blake	160 00	
	Station Foreman .....C. D. McKinnon	160 00	
		$ 12,761 86	
	Supplies, etc. ($30,550.01):		
	Akerberg, Thomson & Co., Ltd., $425.35; Alberni Garage, $55.70; Albert & McCaffery, Ltd., $99.10; A. R. Anderson, $1.80; L. Anderson, $26; Arkwright Motors, $6.50; C. L. Armstrong, $38.43; Armstrong Bros., $712.85; A. J. Barker, $160.30; R. F. Barrett, $2; Barriere Mercantile Co., $8.55; Battery House, $20.40; Beaver Cove Lumber & Pulp Co., Ltd., $6.85; Begg Motor Co., Ltd., $109.62; Belmont Surf Inlet Mines, Ltd., $6.05; H. Bentley, $1.80; R. Bentley, $3.50; Black Bros., $45; Bloedel, Stewart & Welch, Ltd., $4.30; J. Bowden, $37.20; J. D. Boyd, $48.10; T. W. Brewer, $3.10; B.C. Packers' Association, $8.70; A. H. Bromley, $51.65; J. W. B. Browne, $337.10; Burns Lake Garage, $6; Burrard Wood & Fuel Co., Ltd., $20.80; W. Byers, $23.30; R. A. Caddell, $247.53; R. Cameron, $49.75; R. W. Cameron, $3; M. Campbell, $233.80; Campbell Storage Co., Ltd., $5; Canada Paint Co., Ltd., 78c.; Canadian Auto & Electrical Supply Co., Ltd., $6.40; Canadian Fairbanks-Morse Co., Ltd., $694; C.P.R. Co., $1.80; W. Carey, $13.85; A. Casey, $10; Cassidy's, Ltd., $4.95; Central Garage, $232.60; Chappell Bros., $11.10; A. M. Charleson, $15.80; R. H. Chestnut, $18.70; City Market, Prince Rupert, $10.10; C. Colson, $7; Cowan Supply Co., $2.25; Cowie Machine Co., $98.05; D. Cran, $13.20; H. A. Crane, $4.20; Crawford Battery Co., Ltd., $1.50; V. M. Dafoe, $59.69; G. L. Davies, $20.58; W. Desjardins, $87.25; Dezall's Garage, $20.40; Dixon			
	Carried forward	$ 12,761 86	$107,743 49	$ 442,312 57

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LANDS—*Continued.*			
165.	EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES)—*Continued.*			
	Brought forward	$ 12,761 86	$107,743 49	$ 442,312 57
	Construction, Purchase, Maintenance of Launches and Autos, including Subsistence of Crews, etc.—*Cont'd.*			
	Supplies, etc.—*Continued.*			
	Motors, Ltd., $8.68; Dominion Express Co., $6.75; Dominion Rubber System (Pacific), Ltd., $364.95; G. L. DuBois, $2.40; M. Dumond, $60.55; Duncan Garage, $48.40; J. L. Dunlop, $11.70; W. J. Dunseith, $5.55; R. B. W. Eden, $18.85; A. W. Edge Co., $2.53; Eldridge-Buick Co., $19.07; Electric Repairing & Engineering Co., $13.75; E. C. Emde, $53.05; Evans, Coleman & Evans, Ltd., $135.25; False Creek Lumber Co., Ltd., $102.78; W. Farr, $10.10; Ferguson-Higman Motor Co., Ltd., $10.82; Fernie Garage, $117.40; W. R. Flumerfelt, $43.65; Forest Branch, $36.40; Fort Steele Garage Co., $10.80; E. P. Fox, $15.25; A. B. Fraser, $14.50; R. Fraser, $73.50; Fraser & MacKenzie, $9.45; W. Friel, $3.60; H. B. Gates, $37.20; A. R. Georgeson, $16; W. R. Gibbs, $31.15; Gibbs Bros., $107.59; Gibson's, Ltd., $61.10; R. Gillespie, $6.05; Gonsalves & Dames, $12.75; Gordon & Belyea, Ltd., $319.45; Graham Island Spruce & Cedar Co., Ltd., $23.20; Grand Forks Garage, $155.90; G.T.P. Railway Co., $26.80; G. F. Gray, $14.50; D. Greenwood, $25.90; H. Greenwood, $10.10; K. H. Grenfell, $80; J. P. Griffith, $4.50; R. Gritten, $10.45; H. W. Gross, $5; F. W. Groves, $30.52; C. J. Haddon, $1.86; A. L. Hagen, $10.10; R. Hall & Sons, $2; P. Hanrahan, $183.70; Hanson Garage, $378.30; W. Hargraves, $154.37; Harrison & Co., $25; H. P. Hart, $6.90; E. F. W. Heath, $1.65; W. G. Henning, $48.35; T. N. Hibben & Co., $5.10; H. B. Hicks, $505.60; E. Hill, $48.30; Hocking & Woodward, $6; Hoffar Motor Boat Co., $2,201.41; H. J. Holman, $213.25; A. Homewood, $10; A. Hood, $35; Howe & McNulty, $222.99; Hudson's Bay Co., $10.30; Hughes Bros., Ltd., $4; F. E. Hunt, $11.15; Hunter-Henderson Paint Co., Ltd., $285.59; Huson & Clarke, $47.55; Imperial Oil, Ltd., $6.710.12; M. Inskipp, $69.60; Invermere Contracting Co., $18.65; Jamieson Engineering Co., $3.42; W. H. Jones, $6; Kempton & Shaver Garage, $2.05; Kootenay Garage, $382.75; Kootenay Tire Service, $4.10; Knight, Higman Motors, Ltd., $1.73; Lake Launch & Motor Works, $2.03; Langley Prairie Tire Shop, $7.50; Langley Service Garage, $93.46; G. Lawson, $218.40; S. Lee, $22.50; Leith Bros., $5.60; licences, $333.60; H. A. Linberg, $24.70; E. Lipsett, $78.44; Lipsett, Cunningham & Co., Ltd., $10.57; W. Lowry, $1.80; J. G. Macdonald, $22.70; D. Macdougall, $2.19; W. A. Mace, $37.50; J. Mahood, $33.91; Mainland Transfer Co., $19.80; Marconi Wireless Telegraph Co., $7.68; Maritime Fisheries, Ltd., $23.60; J. Marsh, $19.40; J. Martin, $94.93; E. B. Marvin & Co., $86.33; Masset Timber Co., $86.30; Megaw-Smithers Motor Co., $105.30; J. Millar, $2.75; J. Millen & Son, Ltd., $2.26; Minday Engineering Co., $10.61; Modern Vulcanizing Plant, $13.70; Morrison-Thompson Hardware Co., Ltd., $15.08; J. Murray, $37.50;			
	Carried forward	$ 12,761 86	$107,743 49	$ 442,312 57

No. of Vote.	SERVICE.	Expended.		
	DEPARTMENT OF LANDS—*Continued.*			
165.	EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES)—*Continued.*			
	Brought forward	$ 12,761 86	$107,743 49	$ 442,312 57
	Construction, Purchase, Maintenance of Launches and Autos, including Subsistence of Crews, etc.—*Cont'd.* Supplies, etc.—*Continued.* J. G. MacDonald, $20.94; H. D. MacDougall, $2.50; MacInnes Garage, 50c.; A. D. MacIntyre, $9.90; J. B. MacKay, $201.60; T. MacKenzie, $65.61; J. W. McCluskey, $35.02; J. W. McDonald, $2.75; P. McDonald, $18; McKee & Milnes, $20.30; N. M. McLean, $363.78; McLennan, McFeely & Co., Ltd., $146.88; C. E. McParlon, $152.49; A. McQuilken, $218.40; McRae Bros., Ltd., $27.55; National Motor Co., Ltd., $458.45; Neil, Cryderman & Kennedy, Ltd., $70.25; A. Nelson, $42.85; Nelson Auto Co., $95.47; Nelson Hardware Co., $18.80; Nelson Iron Works, Ltd., $1.60; Nelson Motor Supply Co., $8.60; Nelson Tire Repair, $1.25; Nelson Transfer Co., $72.20; Nicola Valley Garage, $241.40; North Coast Welding Co., $98.25; North Island Supply Co., $9; Northern Electric Co., Ltd., $276.25; Northern Hardware Co., $11.10; F. O'Grady, $145.50; H. Oldham, $44.43; W. Oliver, $10; G. M. Olson, $10; W. J. O'Neill, $11.25; C. D. Orchard, $10.74; H. Orr, $78.40; F. P. Osborn, $27.25; Pacific Cartage, Ltd., $1; W. L. Paddon, $6.85; Paine Hardware Co., $104.82; B. W. Palmer, $17.80; Parkin & Ward Electric Co., $9.30; F. Parks & Co., 65c.; Pascoe & Co., $35.95; W. B. Penney, $226.55; Penticton Battery Service Station, $20.50; Penticton Tire Hospital, $19.75; S. Percival, $423.56; M. Peterson, $10; Pioneer Laundry, $17.76; Pioneer Laundry & Dry Cleaners, Ltd., $6.55; Port Alberni Garage, $46.75; H. A. Powell, $13.55; Powell River Co., Ltd., $65.55; P. Price, $73.35; City of Prince Rupert, $14; Princeton Garage, $15.55; E. G. Prior & Co., $63.42; Quesnel Garage, $65.75; P. J. Rahal, $5.50; G. A. Rands, $2.70; Rat Portage Lumber Co., $154.54; Ridley-Kennedy, Ltd., $84.35; Rock Creek Trading Co., Ltd., $22.99; Rotary Auto Machine Co., Ltd., $22.12; R. J. Rudd, $62.80; Ruddy & MacKay, $5.70; A. C. Rudland, $85.80; Rush Transfer Co., $1; Rushton's Garage, $264.20; Rutherford Drug Co., $2.50; W. H. Ryan, $8.65; R. C. St. Clair, $15.45; Salmon Arm Auto Transfer, $2.75; Sampson Motor Co., $316.14; R. S. Sargent, Ltd., $10.85; Seechelt Seaside Resort Co., $53.85; P. Sharkey, $20.50; Silversides Bros., $19.40; Simmons, Ltd., $30.79; Simson, Balkwill & Co., Ltd., $7.73; Smedley's Garage, $1.65; J. F. Smith Co., Ltd., $17.95; H. Smith, $287.15; W. J. Smith, $30.75; Smith Garage, $211.50; Smith & Champion, $5.40; F. D. Smythe, $84; C. C. Snowdon, $71.25; Sparks Co., $124.65; Squamish Hardware Co., $3.20; Steen & Longwill, $38.44; J. W. Stewart, $1.80; G. Stockford, $14.35; F. Stork, $79.25; P. Sweatman, $16.80; W. G. Tannhauser, $132.40; R. H. Tebb, $4.46; Telkwa Garage, $21.15; H. Temple, $185.20; E. J. Thomas, $14.75; Thulin Bros., $450.65; B. L. Tingley, $15; H. Twidle, $3; Union Steamship Co. of B.C., Ltd., $2.55; Vancouver Daily Province,			
	Carried forward	$ 12,761 86	$107,743 49	$ 442,312 57

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LANDS—*Continued.*			
165.	EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES)—*Continued.*			
	Brought forward	$ 12,761 86	$107,743 49	$ 442,312 57
	Construction, Purchase, Maintenance of Launches and Autos, including Subsistence of Crews, etc.—*Cont'd.*			
	Supplies, etc.—*Continued.*			
	$2.10; Vancouver Daily Sun, $10.50; Vancouver Machinery Depot, $28.35; Vancouver Ship Yard, Ltd., $908.95; Vancouver Tire Repair Co., 50c.; A. H. Waddington, $37.50; Waldo Garage, $42.25; Ward Electric & Marine Supply Co., $271.45; Ward Motor Co., $162.45; Watkin's Garage, $379.30; G. B. Watson, $50.89; Weiler Bros., $4.41; West Transfer Co., $3; Whalen Pulp & Paper Mills, Ltd., $367.44; E. E. White, $215.25; T. H. Wilkinson, $31.95; J. B. Willcock, $18.25; G. B. Williams, $30; N. K. Williams, $177.60; H. E. Wilson, $37.20; T. Wilson & Co., $1.65; L. Wire, $5; W. W. Wire, $96; Wood-Vallance Hardware Co., Ltd., $930; A. R. Woodhouse, $141.60; Yates Motor Boat Supply House, $13.60	30,631 18		
		$ 43,393 04		
	By cash	81 17		
	Total expenditure, Construction, Purchase, Maintenance of Launches, etc.		43,311 87	
	Rent and Upkeep of District Offices ($4,344.66):			
	Baker Lumber Co., $48; T. Barton, $60; Beale & Elwell, $60; R. E. Beattie, $660; J. Bell, $11.80; W. W. Boyd, $7; Ceal & Miller, $24; Chong, $60; City Transfer & Warehouse Co., $26.43; Cranbrook Cartage & Transfer Co., $34.55; Cranbrook Electric Light Co., $14.80; R. Cunningham & Son, Ltd., $22.75; E. J. Downe, $280; Fraser & Mackenzie, $55.25; J. K. Frost, $12.25; A. F. Green, $54.28; Gurd & Spreull, $184; Henderson & Goodrich, $29.25; H. B. Hicks, $5.65; G. Jackland, $240; City of Kamloops, $21.75; Kamloops Sash & Door Factory, $16.26; Jim Kee, $96; City of Kelowna, $57.55; R. H. Lee, $537; T. R. Lloyd, $72; W. Lowry, $14.80; J. R. Mitchell, $87.50; R. A. Mitchell, $118; Model Furniture Co., $83.45; Morrison-Thompson Hardware Co., Ltd., $1.25; W. L. Muir, $19.34; J. C. McArthur, $6; J. MacKay, $9.80; D. McLaren, $9.80; City of Nanaimo, $1; Nanaimo Electric Light Co., Ltd., 95c.; Okanagan Loan & Investment Trust Co., $360; L. Olsen, $7; C. S. Parker, $3; P.G.E. Railway Co., $200; Patmore Bros., $3.85; E. Price, $35; City of Prince George, $31.35; H. C. Pugh & Co., $60; H. Rough, $36; P. Sharkey, $10; J. Silcox, $90; B. L. Tingley, $174; J. Turnbull, $39; United Grain-growers Sawmills, Ltd., $20; T. L. Williams, $33; H. Wilson, $200	$ 4,344 66		
	Total expenditure, Rent and Upkeep of District Offices..		4,344 66	
	Incidentals ($17,870.22):			
	Adanac Publishing Co., $11; Alberta Lumber Co., Ltd., $2.75; Alert Messenger & Taxi, 65c.; Ashcroft Print Co., Ltd., $241.75; F. H. Bassett, $3.10; H. Bentley, $1.55; W. Blair, $51; E. R. Bremner, $4; Brooks-Bidlake Cedar Co., Ltd., $15; J. Burns & Son, $5; Cameron & Calwell, $5; Campbell's Storage Co.,			
	Carried forward		$155,400 02	$ 442,312 57

No. of Vote.	SERVICE.		Expended.

DEPARTMENT OF LANDS—*Continued.*

165. EXPENSES (INCLUDING GENERAL OFFICE AND BRANCHES)—*Continued.*

Brought forward ..... $155,400 02 $ 442,312 57

Incidentals—*Continued.*

Ltd., $1.50; Campaigner Magazine, $45; Canadian Bank of Commerce, $4.25; Canadian Express Co., $269.26; Canadian National Railways, $1.15; C.P.R. Co., $72.06; Cariboo Observer, $330.22; Central Interior Printing Co., $556.35; D. Chapman, $10.50; City Cartage & Transfer Co., $1.50; Clarke & Stuart Co., Ltd., $45.40; J. L. Colbert (sundry accounts), $19.39; Columbian Co., Ltd., $61.56; Comox Argus, $123.75; Cranbrook Cartage & Transfer Co., $25; Cranbrook Courier, $438.62; Cranbrook Sash & Door Co., $4.10; Creston Review, $303.96; W. Dick, $9; Dominion Express Co., $693.12; C. Doucette, $110; S. O. Elder, $20.86; E. & N. Railway Co., $43.27; Farm and Home, $238.60; G. S. Fee, $5; G. Fennell, $34.90; Fernie Free Press, $315.76; Goodman Supply Co., $23.05; Grand Forks Sun, $153.80; G.W.V.A. Year Book of B.C., $150; J. W. Grier, $108.24; A. G. Griffith, $68; F. W. Groves, $5.14; J. Harwood, $1; Howe & McNulty, $8.50; Hudson's Bay Co., $28.75; O. B. Hughes, $18.10; Inland Express Co., Ltd., $21.65; Interior News, $423.16; The Islander, $90.75; J. Izowsky, 70c.; C. H. Jones & Son, Ltd., $5.20; Kamloops Telegram, $93.06; J. Keech, $1.45; Kelowna Courier, $14.35; R. M. Kenyon, $9; King's Printer, $3,155.80; Kitsilano Times, $253; H. R. Kitto, $2; Letson & Burpee, Ltd., $362.64; The Ledge, $207.95; Lindsay's Cartage & Storage, 50c.; E. Lund, $5; A. D. Macdonald, $4; Mainland Transfer Co., $1.50; Merritt Herald, $185.02; J. Milton, $2.50; A. H. Mogridge, $3.20; J. G. MacDonald, 85c.; J. MacKay, $9; V. McArthur, $18; D. McLaren, $13.30; H. C. MacLean Co., Ltd., $4.50; McLeod & Hodgson, $26.05; National Nurseryman, $1.50; Nechako Chronicle, $308.93; News P. & P. Co., Prince Rupert, $2,372.60; News Publishing Co., Nelson, $155.15; North Coast Welding Co., $31.15; North Shore Press, Ltd., $5; Northern Hardware Co., $4.26; Omineca Herald, $355.56; Pacific Cartage, Ltd., $53.23; P.G.E. Railway, $77.85; F. Parks & Co., $67.84; Penticton Herald, $331.89; Port Alberni P. & P. Co., Ltd., $61.40; H. Porter, $10; Portland Canal News, $217.59; A. E. Price, $1.50; Princeton Star, $303.25; E. B. Prowd, $1.20; Public Works Department, $25.20; Reliable Messenger & Delivery Co., $1; Reliable Transfer Co., $66.25; Resources Publishing Co., $76.50; Revelstoke Review Publishing Co., $148.75; Review Publishing Co., Summerland, $123; Rossland Saturday Night Miner, $4.60; Ruddy & MacKay, $7.35; Rush Transfer & Storage Co., $25.63; P. Sharkey, $11.85; J. B. Smith, $43.97; R. H. Tebb, $17.93; Terrace News, $215.40; Times P. & P. Co., Ltd., $291.59; F. J. Tingley, $1; Union Steamship Co. of B.C., Ltd., 65c.; United Press, Ltd., $115.50; A. Urquhart, $4; Vancouver Daily Province, $1,040.20; Vancouver Daily Sun, $1,230.15; Vernon News P. & P. Co., Ltd., $183.96; G. B. Williams, $122.25; pay-lists, $150 ..... $ 17,870 22

Total expenditure, Incidentals 17,870 22

Total expenditure, General Expenses 173,270 24

Carried forward ..... $ 615,582 81

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LANDS—*Continued.*		
	Brought forward		$ 615,582 81
166.	FOREST PROTECTION FUND ("FOREST ACT").		
	Government's contribution to Forest Protection Fund on the basis of dollar for dollar on the amount collected by the Forest Branch during the year ending March 31st, 1921	$189,816 80	
	Total expenditure, Forest Protection Fund		189,816 80
167.	LUMBER TRADE EXTENSION.		
	Salaries ($10,420.65):		
	Transfer from Vote 163, being amount chargeable to Lumber Trade Extension	$ 10,200 65	
	W. Robertson, living allowance	220 00	
		$ 10,420 65	
	Expenses ($18,499.66):		
	Travelling Expenses: L. L. Brown, $710.70; M. A. Grainger, $956.32; G. R. Naden, $18.90; W. Robertson, $1,014.51; J. Thompson, $10.46; W. Turnbull, $1,556.90	4,267 79	
	Miscellaneous Supplies and Expenses: American Lumberman, $5.50; Arthurs-Jones, $33.75; W. W. Baer, $1.25; R. J. Binning, $7; B.C. Telephone Co., Ltd., $4.40; B.C. Veterans' Weekly, $200; British Illuminated Sign Co., Ltd., $201.76; L. L. Brown (rents, advertising, etc.), $1,786.12; Cameron & Calwell, $25.50; Canada Newspaper, Ltd., $41.22; Canadian Forestry Magazine, $90; Canadian Manufacturers Association, $65; Canadian National Exhibition, $100; C.P.R. Co., $170.95; Canadian Woodworker, $1.25; Cleland-Bell Engraving Co., Ltd., $55.37; Colonist P. & P. Co., Ltd., $9.75; Commercial Photo Co., $177.79; R. C. Davison, $925; H. W. de Board, $109.46; E. H. Defebaugh, $1.61; Dominion Express Co., $101.44; Dominion Government Telegraphs, $1.10; Electric Blue Print & Map Co., $111.85; Electrical & Theatre Equipment Co., Ltd., $15; Empress Hotel, $85.70; G. Everall Co., Ltd., $24.25; H. Fleming, $26; Fraser Publishing Co., $3; H. Gagnier, $62.25; Globe Printing Co., $50; Grand & Toy, Ltd., $31; G.N.W. Telegraph Co., $57.74; Heaton's Agency, $157.08; J. D. Hewett & Co., Ltd., $75.27; Imperial Institute, $21.06; Independent Van & Storage Co., $144.55; Industrial & Educational Publishing Co., Ltd., $5; Jameson & Willis, Ltd., $1,802; Journal of Commerce Publishing Co., Ltd., $2.50; A. D. Kean, $1,732.50; King's Printer, $1,910.45; Kingston Road Garage, $27.50; J. B. Lee & Sons, Ltd., $19.42; B. W. Leeson, $6; Lumber World Review, $3.65; MacLean Publishing Co., Ltd., $250; Mail & Empire, $33; T. Meadows & Co., Ltd., $7.42; J. Millen & Son, Ltd., $29.53; A. McKim, Ltd., $2; H. C. MacLean, Ltd., $52.50; News P. & P. Co., Ltd., Prince Rupert, $4; The Oregonian, $3.20; Otis-Staples Lumber Co., Ltd., $6; Pacific Coast Lumberman, 70c.; Pacific Logging Congress, $11.78; Pacific Ports, Inc., $6.04; E. M. Paterson, $618.59; Peake & Whittingham, $7; Post-Intelligencer Co., $3.10; Printers' Ink Publishing Co., Ltd., $1.84; Progress Publishing Co., Ltd., $202; Public Works Department, $2.50; M. Rawlinson, Ltd., $15.50; Ridpath's Cabinet Shop, $159; J. R. Robertson, $8.40; W. Robertson (rents, advertising, etc.), $946.31; Robertson & Hackett Sash & Door Co., Ltd., $553.14; Ross-Saskatoon Lumber Co., Ltd., $42.60; San Francisco Examiner, $2.60; Saturday Night, $4; The Timberman, 75c.; Times P. & P. Co., Ltd., $10; Times Publishing Co., London, England, $449; Toronto Board of Trade, $62.50; Toronto & Niagara Power Co., $1.26; Toronto Daily Star, $20; Toronto		
	Carried forward	$ 14,688 44	$ 805,399 61

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LANDS—*Continued.*		
167.	LUMBER TRADE EXTENSION—*Continued.*		
	Brought forward	$ 14,688 44	$ 805,399 61
	Expenses—*Continued.*		
	Miscellaneous Supplies and Expenses—*Continued.*		
	World, $13; Vancouver Daily Province, $3.25; Vancouver Daily Sun, $2.50; Vancouver Exhibition Association, $82.22; West Coast Lumberman, $1; Western Lumberman, $62.25; The Wooden Shingle, Ltd., $49; The World, Ltd., $3.40; Wrigley Directories, Ltd., $10	14,231 87	
	Total expenditure, Lumber Trade Extension		28,920 31
168.	RAINFALL AND CLIMATIC STATISTICS.		
	Pay-lists		492 36
169.	GENERAL WATER SURVEYS.		
	Salaries ($16,192.82):		
	Engineers:		
	F. W. Groves $130 00 — G. Porter $1,541 94		
	W. H. Moodie 929 78	$ 2,601 72	
	Assistant Engineers:		
	W. A. Cameron $1,715 00 — P. Shaw $635 00		
	C. Percival 465 00	2,815 00	
	Valuer — C. F. Chaffey	347 97	
	Draughtsmen:		
	H. N. Gahan $125 00 — A. G. Hatton $180 00	305 00	
	Pay-lists	10,123 13	
		$ 16,192 82	
	Expenses ($9,919.52):		
	Travelling Expenses:		
	G. Anderson, $8.90; W. Anderson, $444.25; W. Blane, $897.73; W. A. Cameron, $133.55; C. F. Chaffey, $380.82; F. W. Groves, $14.88; W. Hallam, Jr., $75.80; A. G. Hatton, $194.25; H. B. Hicks, $23.35; D. W. Hodsdon, $889.37; J. E. Kenny, $64.85; A. D. Marshall, $103.27; W. H. Moodie, $522.86; C. Percival, $77.20; G. Porter, $608.85; P. Shaw, $99.25	4,539 18	
	Miscellaneous:		
	Adelphi Hotel, $33; W. Agnew, $300; A. B. Almour, $9; R. Andrew & Co., $4.10; E. E. Armstrong, $10; Armstrong's Department Store, $302.40; C. W. Barker, $3.10; J. Brent, $122.50; H. W. Brien, $5.70; P. Burns & Co., $5.55; J. Byers, $2; D. D. Campbell, $629; F. A. E. Canavan, $50; C. E. Cartwright, $413.05; Casorso Bros., $11.15; D. Chapman, $3; J. Clark, $5; Clarke & Stuart Co., Ltd., $10.94; F. Cooper, $602.67; S. N. Cutbill, $19; Diggon Printing Co., $13.75; Dominion Express Co., $2.27; Douglas Lake Cattle Co., $130.70; Dufresne & Whitaker, $406.55; J. L. Dunlop, $3; Electric Blue Print & Map Co., $1.75; A. Eli, $195; J. W. Fleming, $32; C. Fowler, $47.25; J. F. Fumerton & Co., $38.23; W. T. Gebbie, $1; W. R. Glenn & Son, 70c.; F. Goertz, $40; G. C. Goulding, $10; G. Grant, $13.50; Guichon Ranch Store, $37.60; W. Haug & Son, $2.45; L. A. Hayman, $2.10; L. E. Herchmer, $8.25; Howe & McNulty, $18.50; Jenkins Co., Ltd., $24.25; F. Jeune & Bro., Ltd., $262.64; A. Johnson, $4.50; A. J. Jones, 75c.; Kelly, Douglas & Co., $163.47; Kelowna Courier, $8.50; Kelowna Sawmill Co., $1.75; King's Printer, $45.05; Leckie Hardware, Ltd., $5.85; W. H. Malkin Co., Ltd., $83; P. Marquette, $25; L. Michel, $52; H. J. Mills, $46.05; Morrison-Thompson Hardware Co., $25.53; MacPhail-Smith Hardware Co., $1.45; E. McAvoy, $28; U. McDougall, $120; McKenzie Co., Ltd., $60.60; K. McKenzie Lumber Co.,		
	Carried forward	$ 20,732 00	$ 834,812 28

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LANDS—*Continued.*		
169.	GENERAL WATER SURVEYS—*Continued.*		
	Brought forward	$ 20,732 00	$ 834,812 28
	Expenses—*Continued.*		
	Miscellaneous—*Continued.*		
	$1.35; McLennan, McFeely & Co., Ltd., $20.27; McRae Bros., Ltd., $9.05; Neil & Cryderman, $50.05; Nelson Hardware Co., 77c.; Occidental Fruit Co., $8; Okanagan Building & Trading Co., $1.25; J. O'Neill, $20; Owl Drug Co., $4.10; People's Cash Hardware, $13.45; W. R. Pilsworth, $229.03; E. G. Prior & Co., Ltd., $44.49; J. A. Quesnel, $15; G. R. Raincock, $1.35; L. D. Rengger, $18.60; A. G. Robertson, $3.50; S. M. Simpson, $10.60; Stewart & Mobley, Ltd., $377.55; F. Stork, $24.70; Thompson Hardware Co., $24.85; Tisdall's, Ltd., $7.50; W. R. Trench, $5.75; Trenco Motors, $7.50; W. Turner, $33.60; Vernon Drug Co., $6.25; Vernon Hardware Co., Ltd., $30.99; Vernon Meat Market, $61.95; Victoria Book & Stationery Co., Ltd., $11.30; R. Waldie, $10; R. P. White, $162.90; P. B. Willits & Co., $8.75; J. Wright, $2; S. Young, $2	5,732 60	
		$ 26,464 60	
	By cash	352 26	
	Total expenditure, General Water Surveys		26,112 34
170.	WELL-DRILLING, SALARIES AND EXPENSES.		
	Salaries ($138.75):		
	W. H. Bugbee .....$105 00 J. H. Hawkins $33 75	$ 138 75	
	Expenses ($375.18):		
	Travelling Expenses:		
	W. H. Bugbee	22 90	
	Miscellaneous:		
	T. P. Barry, $55.50; C.P.R. Co., $29.30; F. P. Carlin, $14; F. W. Chase, $25; Dezall Garage, $52.60; N. S. Dalgleish, $7.53; W. J. Ellis & Co., $54.12; Great Western Junk Co., $12; Marsh Motor Co., $18; Ontario Wind Engine & Pump Co., $74.23; Rolla Board of Trade, $100	442 28	
		$ 603 93	
	By cash	90 00	
	Total expenditure, Well-drilling, Salaries and Expenses		513 93
171.	SPECIAL STUDIES: DUTY OF WATER.		
	Nil		
172.	BRITISH COLUMBIA HYDROMETRIC SURVEY.		
	Leupold, Voelpel & Co., $288.80; R. G. Swan, $100.53; pay-lists, Steam-gauge Readers, $7,109.90	$ 7,499 23	
	Total expenditure, B.C. Hydrometric Survey		7,499 23
173.	LITHOGRAPH MAPS.		
	Colonist P. & P. Co., Ltd., $5,129.62; T. N. Hibben & Co., $1; Smith, Davidson & Wright, Ltd., $1,328.98; Times P. & P. Co., Ltd., $15	$ 6,474 60	
	Total expenditure, Lithograph Maps		6,474 60
174.	LAND SURVEYS.		
	H. H. B. Abbott, $8,478.40; J. C. Agnew, $5,719.20; A. P. Augustine, $4,248.32; G. R. Bagshawe, $4,519.19; A. R. Barrow, $6,116.86; W. A. Bauer, $74.50; R. P. Bishop, $11,020.71; G. S.		
	Carried forward		$ 875,412 38

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LANDS—*Continued.*		
174.	LAND SURVEYS—*Continued.*		
	Brought forward		$ 875,412 38
	Boulton, $156.25; G. K. Burnett, $8,985.85; J. F. Campbell, $7,498.52; P. C. Coates, $39.50; J. Davis, $150; J. Davidson, $8,061.44; H. D. Dawson, $3,591.15; F. A. Devereaux, $311; G. M. Downton, $7,723.94; A. Drescoll, $200; W. S. Drewry, $8,688.41; H. McL. Elliott, $192; J. Elliott, $5,591.60; E. J. Gook, $8,129.43; L. F. Grant, $6,155.01; J. H. Gray, $4,765.47; A. H. Green, $813.40; P. W. Gregory, $7,267.72; R. W. Haggen, $5,646.80; A. W. Harvey, $143.80; Hawkins & Horie, $60.85; H. M. T. Hodgson, $4,752.75; A. H. Holland, $9,211.23; W. J. H. Holmes, $7,763.51; A. E. Humphrey, $3,758.79; B. Hutchinson, $150; F. R. Johnson, $42.50; J. T. Laidlaw, $7,337.68; F. E. Leach, $9,332.86; W. C. Merston, $8,167.37; D. B. Morkill, $837.49; F. O. Morris, $151.80; A. S. G. Musgrave, $75; A. L. McCulloch, $38.40; McElhanney Bros., $159.55; A. W. McVittie, $40; F. Nash, $1,330.51; H. Rhodes, $118.60; H. H. Roberts, $5.269.28; J. E. Ross, $2,645.19; J. A. Rutherford, $293.35; V. Schjelderup, $7,926.66; C. A. E. Shaw, $5,742.20; C. B. Simonds, $273.65; F. C. Swannell, $9,022.96; T. H. Taylor, $5,436.83; F. Tupper, $9,655.42; J. T. Underhill, $8,626.32; J. A. Walker, $1,050.05; O. B. N. Wilkie, $11,398.25; A. E. Wright, $7,908.82; H. A. Youdall, $58.50	$252,924 84	
	By cash	198 12	
	Total expenditure, Land Surveys		252,726 72
175.	PHOTO-TOPOGRAPHICAL SURVEYS.		
	Department of the Interior, Ottawa, $11,343.22; Electric Blue Print & Map Co., $25.80; F. Goertz, $270; G. J. Jackson, $7,871.38; King's Printer, $200.69; M. F. Macdonald, $26.25; A. H. Maynard, $62.40; R. D. McCaw, $9,744.02; F. W. Nolte & Co., $14; E. G. Prior & Co., Ltd., $2.98; Public Works Department, $66; A. S. Thomson, $136.11	$ 29,762 85	
	Total expenditure, Photo-topographical Surveys		29,762 85
176.	PUBLICITY.		
	King's Printer, $2,898.17; McRae Bros., Ltd., $10.75; Times P. & P. Co., Ltd., $191.52	$ 3,100 44	
	Total expenditure, Publicity		3,100 44
177.	GENERAL INVESTIGATIONS.		
	King's Printer, $446; Macey-Abell Co., Ltd., $101.45; pay-list, $84..	$ 631 45	
	Total expenditure, General Investigations		631 45
178.	INCIDENTALS AND CONTINGENCIES.		
	C. C. Block, $148.93; British Timber Corporation, Ltd., $149.27; F. Fraser, $19.85; D. B. McLaren, $330; P. T. Saunders, $106....	$ 754 05	
	Total expenditure, Incidentals and Contingencies		754 05
179.	IRRIGATION CONVENTION.		
	Western Canada Irrigation Association, grant *re* Convention at Lethbridge		500 00
180.	RECONNAISSANCE: GROWTHS, STUDIES, AND CRUISING.		
	C. L. Armstrong, $32.55; Backus & Breaden, 50c.; Bairds, $6.75; P. M. Barr, $32.45; Barriere Mercantile Co., $4.95; E. Bashaw Lumber Co., $114; G. A. Baurle, $12.30; R. E. Berry, $5.35; A. H. Black, $174.95; W. Blair, $138.20; P. S. Bonney, $1.45; A. M.		
	Carried forward		$1,162,887 89

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LANDS—*Continued.*		
180.	RECONNAISSANCE: GROWTHS, STUDIES, AND CRUISING—*Continued.*		
	Brought forward		$1,162,887 89
	Bromley, $62.55; B. Brynilsen & Co., $612.85; P. Burns & Co., Ltd., $221.94; C. E. Burtch, $13.80; W. N. Campbell, $41.35; Canadian Express Co., $2.10; C.N. Railway Co., $61.75; C.P.R. Co., $5.30; R. W. Carey, $97.75; T. C. Cass, $6.65; City Cartage & Transfer Co., $1; J. R. Colley, $9.15; A. E. Collins, $42.50; F. Connine, $7.75; N. S. Dalgleish, $8.45; Dewey Sawmills Co., $31.50; W. Dickson, $6.40; J. Duncan, $41.20; J. Dunn, $62; A. Dunning, $21.25; H. W. Eades, $33.45; G. Fennell, $485.75; G. R. Fisher, $7.10; G. Forbes, $3.80; Fraser Timber Syndicate, $1,958.62; A. Galloway, $27.10; W. Geddes, $23.80; J. M. Gibson, $156.15; G.T.P. Railway Co., $4.17; Home Building & Manufacturing Co., $8.65; J. Holland, $4.20; L. S. Hope, $522.60; A. P. Horne, $212.05; Hudson's Bay Co., $435.35; F. Jeune & Bro., Ltd., $423.77; B. H. Johnston, $45.40; C. H. Jones & Son, Ltd., $32.10; Kamloops Harness Co., $3.10; Kenney Bros. & Co., $199; R. M. Kenyon, $18; E. Kershaw, $18.75; F. Lazelle Co., $43; Leith Bros., $98.85; E. Lipsett, $62.06; R. Little, $12.15; Longworth Lumber Co., $118.50; L. Lyle, $59.05; Macbeth & Miller, $8.30; Maple Leaf Bakery, $811.35; Marlatt & MacKenzie, $6.40; S. E. Marling, $62.65; E. Martin, $9.80; L. L. Mayson, $14; G. P. Melrose, $4.50; S. W. Miller, $13.70; J. Milton, $50.70; J. H. Mitchell, $63.20; P. Montchel, $16.60; A. E. Morgan & Co., $412.53; H. B. Morley & Co., Ltd., $1.25; S. S. Moss, $40; A. J. Mulcahey, $42.50; F. D. Mulholland, $107.15; R. McCall, $194.14; N. McCannell, 75c.; A. McClughan, $40; J. P. McCuddy, $32.63; D. McLaren, $477.66; A. J. McLean, $8.80; F. McVickar, $802.74; J. Newman, $10.65; Northern Hardware Co., $116.14; Northern Supply, $43.75; C. D. Orchard, $30.10; Pacific Mills, Ltd., $2,060.24; G. C. Palethorpe, $93.90; Panama News Stand, $1.50; A. E. Parlow, $4.90; Penticton Hardware Co., $20.21; A. C. Pollard, $24.65; R. Pollard, $17.25; Prince George Drug Co., $2.35; Prince George Fur Co., $10.50; A. Robertson, $53; Rush Transfer & Storage Co., $1; J. Small, $26.05; T. E. Snelgrove, $63.30; Star Grocery, $98.73; J. W. Stewart, $213.42; Storey & Campbell, $19.50; W. Streeter, $54.30; Swift Canadian Co., Ltd., $52.19; B. Sykes, $100.50; I. M. Taylor, $44.95; Vernon Hardware Co., Ltd., $13.40; L. Vibbard, $12.50; A. H. Waddington, 65c.; T. H. Wilkinson, $180.40; J. B. Willcock, $22.82; Wilcox-Hall Co., Ltd., $128.45; V. C. Williams, $4.05; C. Willis, $395; W. E. Wilson, $1.85; K. T. Winn, $3.55; Wood-Vallance Hardware Co., Ltd., $9.42; G. Woodall, $11.85; pay-lists, $17,123.52	$ 31,189 10	
	Total expenditure, Reconnaissance		31,189 10
181.	INSECT DAMAGE: INVESTIGATION AND CONTROL.		
	J. Andrews, $55; Electric Blue Print & Map Co., $103.80; F. Jeune & Bro., Ltd., $93.29; Merritt Mercantile Co., $1,270.40; C. McIntosh, $10; Nicola Valley Garage, $1,407.30; C. D. Orchard, $295.40; R. Queer, $7; W. H. Ryan, $97.50; E. J. Thomas, $17; pay-lists, $3,556.39	$ 6,913 08	
	Total expenditure, Insect Damage		6,913 08
182.	GRAZING: RANGE IMPROVEMENTS, ETC.		
	E. R. Buckell, $15.51; D. J. Innis, $21.60; C. McIntosh, $35; Grazing Range Improvement Account, authority chap. 30, sec. 11, 1919, $3,398	$ 3,470 11	
	Total expenditure, Grazing: Range Improvements, etc.		3,470 11
	Carried forward		$1,204,460 18

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LANDS—*Continued.*		
	Brought forward		$1,204,460 18
183.	OIL INVESTIGATIONS.		
	Salaries ($8,664.06):		
	Geologists:		
	J. A. Dresser ..... $2,032 25 A. MacLean $1,133 33		
	J. C. Gwillam ..... 500 00 E. M. Spieker 2,350 81	$ 6,016 39	
	Assistant ..... W. R. Smith	826 67	
	Pay-lists	1,821 00	
		$ 8,664 06	
	Expenses ($6,325.60):		
	Travelling Expenses:		
	J. A. Dresser, $2,501.85; W. R. Smith, $40.40; E. M. Spieker, $1,480.32	4,022 57	
	Miscellaneous:		
	Canadian Bank of Commerce, $14.19; Colonist Printing & Publishing Co., Ltd., $30; J. Driscoll. Ltd., $1.50; Edmonton Drafting & Supply Co., $70; Edmonton Saddlery Co., Ltd., $15; Edmonton Tent & Mattress Co., $206.44; Electric Blue Print & Map Co., $41.85; H. C. Garbitt, $1,266; Hingston-Smith Arms Co., $2.75; Hudson's Bay Co., $277.85; King's Printer, $327; H. A. Phillips, $31.50; Merville Hardware Co., Ltd., $16.35; Times Printing & Publishing Co., Ltd., $2.60	2,303 03	
	Total expenditure, Oil Investigations		14,989 66
183A.	REFUND OF AMOUNT PAID ON CERTIFICATE OF PURCHASE NO. 1706, ALBERNI, IN NAME OF JAMES W. WESTERMAN.		
	E. J. T. Taylor		200 00
183B.	REFUND OF AMOUNT PAID ON CERTIFICATE OF PURCHASE NO. 2705, NELSON, IN NAME OF FREDERICK ADAM.		
	John Svoboda		80 00
183C.	CAPTAIN E. R. CLUTTERBUCK, REPURCHASE OF LOT 164, SAYWARD DISTRICT, CROWN-GRANTED IN ERROR, OCTOBER 20TH, 1910.		
	Nil		.....
	STATUTORY EXPENDITURE.		
	"Land Act," R.S.B.C. 1911, and "Revenue Act Amendment Act, 1920."		
	Refunds of Purchase Price of Crown Lands.		
	R. H. Brenchley, $320; Britannia Mining & Smelting Co., Ltd., $2.60; B.C. Spruce Mills, Ltd., $2.50; J. R. Campbell, $48.28; J. Carlson, $10.85; W. J. Carr, $14.45; M. Crockett, $20; Estate of J. Deacon, $8.15; W. B. Detcher, $40; W. C. Dice, $39; C. V. Dillard, $72.50; C. S. Edwards, $160; J. A. Fraser, $80; E. Hallfach and A. McDonald, $2,666; R. Hand, $1,610; V. C. Haynes, $160; H. Henderson, $80; R. Kivett, $8.72; J. A. Kristiansen, $1.27; Midland Counties, Ltd., $160; Mitchell, Oakes & McLellan, $10; J. MacLeod, $112.50; Estate of A. E. McColl, $160; R. R. McKinnon, $7; J. and D. C. McRae, $312.26; A. W. Nims, $1.37; North Coast Land Co., $6,121.10; S. H. Ray, $325; F. P. Rickward, $9.35; A. Robbins, $10.25; G. Roussell, $80; D. R. Ryan, $100; H. Rymell, $4.75; D. Simon, $10; L. M. Smith, $2.50; B. C. Tatchell, $10; A. H. Wade, $35.88; J. Wiggins, $24.78	$ 12,841 06	
	Total expenditure, Refunds *re* Crown Lands		12,841 06
	"Townsite Proportionate Allotment Act, 1918," Sec. 9.		
	Municipality of Point Grey		60.000 00
	Carried forward		$1,292,570 90

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF LANDS—*Continued.*

STATUTORY EXPENDITURE—*Continued.*

Brought forward $1,292,570 90

"Soldiers' Land Act, 1918," Sec. 5 (e)—Incidental Expenses.

Salaries ($7,334.72):

Manager of Nursery		R. Simpson	$ 1,800 00	
Assistants:				
S. Bardsley	$ 110 00	R. W. Ford	$686 85	
W. Donald	1,320 00	E. P. Fripp	67 74	2,184 59
Overseer		A. H. Mogridge		350 00
Pay-lists				3,000 13
			$ 7,334 72	

Expenses ($8,045.52):

Albertan Publishing Co., Ltd., $23.52; W. S. Bethune, $4; J. Brand & Co., $22.50; B.C. Veterans' Weekly, $26.88; Bulletin Co., Ltd., $19.80; W. Campbell, $66.60; Canadian Fairbanks-Morse Co., $17.79; Carter Bros., $14.00; H. Cathcart, $65.46; J. W. Clark, $66.15; Colonist Printing & Publishing Co., Ltd., $75.60; Community Lumber Co., Ltd., $14.50; Cranbrook Courier, $14.40; Crane, Ltd., $398.75; Echo Bay Ranch, $75; Edmonton Journal, $26.88; Farm and Home, $12.60; Farm and Ranch Review, Ltd., $58.80; H. Garner, $331.20; A. E. Griffin, $192.91; Harrison & Taylor, $221.69; Herald Publishing Co., Ltd., $26.88; Imperial Oil, Ltd., $531.78; Interior News, $8.40; J. G. James, $286.06; Jamieson Engineering Co., $145; D. Keith, $14.45; W. R. King & Co., $9.60; King's Printer, $631.10; Layritz Nurseries, $412.10; Leader Publishing Co., Ltd., $10.50; The Ledge, $9; Leir Lumber Co., Ltd., $217.59; Manitoba Free Press Co., Ltd., $100.80; Menzies & Adams, $100.75; J. Mitchell Tractor Co., $594.58; A. H. Mogridge, $289.30; H. B. Morley & Co., $89.99; A. MacDougall, $338; K. McKenzie Lumber Co., $666.13; News Printing & Publishing Co., Ltd., Prince Rupert, $18; News Publishing Co., Nelson, $12; Occidental Fruit Co., $62.50; Okanagan Painting & Decorating Co., $28; Okanagan Nurseries, $7.19; W. N. O'Neil Co., Ltd., $9.35; Penticton Co-operative Growers, $35.72; Penticton Hardware Co., $115.96; Penticton Herald, $29.75; Record Publishing Co., $17.40; Review Publishing Co., $4.50; J. Simpson, $25.25; R. Simpson, $449.27; Simson, Balkwell & Co., Ltd., $36.29; H. W. D. Smith, $62.25; South Okanagan Supply Co., Ltd., $31.80; South Okanagan Transportation Co., $61.23; Spokesman Review, $71.22; C. A. C. Steward, $20; Summerland Mercantile Co., Ltd., $75; Sutcliffe & Sismey, $223; Syer & Smith, 91c.; A. Tavendale, $323.60; Terrace News, $8.40; H. Thomas, $4; Times Printing & Publishing Co., Ltd., $72; United Seed Growers, Ltd., $80.45; Vancouver Daily Province, $164.10; Vancouver Daily Sun, $82.20; Vernon News Printing & Publishing Co., Ltd., $13.44 ..... 8,375 82

$ 15,710 54

By cash 330 30

Total expenditure, "Soldiers' Land Act"—Incidental Expenses 15,380 24

Total expenditure, Department of Lands $1,307,951 14

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF LABOUR.

184. GENERAL OFFICE.

Salaries ($8,256.68):

Deputy Minister	J. D. McNiven			$	3,720 00
Chief Clerk	D. McCallum				950 00
Clerks:					
S. J. Charman	$661 29	J. S. Raine	$1,500 00		
G. W. Palmer	150 00				2,311 29
Clerk and Stenographer	D. E. Hill				840 00
Stenographers:					
M. O. Howitt	$102 50	M. Switzer	$332 89		435 39
				$	8,256 68

Expenses ($2,969.98):

Office Supplies, etc.: B.C. Federationist, $2.50; B.C. Telephone Co., Ltd., $47.26; C.P.R. Telegraphs, $33.75; Colonist P. & P. Co., Ltd., $17.80; W. S. Fraser & Co., Ltd., $6.26; G.N.W. Telegraph Co., $18.02; E. S. Harris, 50c.; King's Printer, $1,562.48; Department of Lands, 50c.; Lemon-Gonnason Co., Ltd., $39.73; Macey-Abell Co., Ltd., $54.70; F. Mellor, $3.50; Pacific Coast Lumberman, $2; postage, $279.20; Progress Publishing Co., Ltd., $4.50; Public Works Department, $67.30; Reliable Transfer Co., $2; Times P. & P. Co., Ltd., $3.30; United Typewriter Co., Ltd., $169.60; Vancouver Daily Sun, $4; Wrigley Directories, $10...	2,328 90
Travelling Expenses: D. McCallum, $144.20; J. D. McNiven, $442.17; G. W. Palmer, $26.65; J. S. Raine, $28.06	641 08
Total expenditure, General Office	$ 11,226 66

185. MINIMUM WAGE BOARD.

Salaries ($2,580):

Secretary	M. A. Cameron	$	1,800 00
Stenographer	M. Sibbald		780 00
		$	2,580 00

Expenses ($2,171.28):

Office Supplies, etc.: B.C. Clean Towel Supply, Ltd., $18; B.C. Telephone Co., Ltd., $114.34; C.P.R. Telegraphs, $1.79; Dixon & Murray, $35; Dominion Express Co., $5.50; Drake Hardware Co., Ltd., 60c.; G.N.W. Telegraph Co., $1.01; Hall & O'Halloran, $50; Hopps Sign Co., $2.40; King's Printer, $305.34; News P. & P. Co., Ltd., $1.75; postage, $228.84; Western Woman's Weekly, $289.99; Wrigley Directories, $20	1,074 56
Travelling Expenses: M. A. Cameron, $226.71; H. G. MacGill, $262.81; J. D. McNiven, $44.70	534 22
Rent, etc. (Vancouver Office): D. Burns	562 50
Total expenditure, Minimum Wage Board	4,751 28

EMPLOYMENT BUREAUS.

186. CRANBROOK OFFICE.

Salaries ($1,374):

Clerks:					
W. M. Harris	$1,320 00	S. S. Simpson	$54 00	$	1,374 00
Carried forward				$	1,374 00	$ 15,977 94

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LABOUR—*Continued.*			
	EMPLOYMENT BUREAUS—*Continued.*			
186.	CRANBROOK OFFICE—*Continued.*			
	Brought forward	$ 1,374 00		$ 15,977 94
	Expenses ($492.60):			
	Office Supplies, etc.:			
	C.P.R. Telegraphs, $73.83; W. M. Harris (petty expenses), $59.66; King's Printer, $12.11; Kootenay Telephone Lines, Ltd., $118.60; F. Parks & Co., $4.45; Wrigley Directories, Ltd., $10	278 65		
	Rent, Fuel, Light, etc.:			
	Cranbrook Electric Light Co., Ltd., $10.45; J. Manning, $23.50; Raworth Bros., $180	213 95		
	Total expenditure, Cranbrook Office		$ 1,866 60	
187.	FERNIE OFFICE.			
	Salaries ($1,320):			
	Clerks:			
	C. F. Hesketh ..$880 00 E. Hooper $440 00	$ 1,320 00		
	Expenses ($641.80):			
	Office Supplies, etc.:			
	A. W. Bleasdell, $3.15; C.P.R. Co., $50.71; C. J. Digby, $21.61; Dominion Express Co., $5.75; E. Evans, $20; King's Printer, $24.09; Kootenay Telephone Lines, Ltd., $103.65; Lawe & Fisher, $10; E. Mitchell, $5; T. McGladry, $3.50; McLean Drug & Book, Ltd., 50c.; postage, $18.70; Trites-Wood Co., Ltd., 45c.; R. Wallwork, $5; Western Union Telegraph Co., $1.44; T. Wiltshire, $25.50; Wrigley Directories, Ltd., $10	309 05		
	Travelling Expenses:			
	C. F. Hesketh	1 75		
	Rent, Fuel, Light, etc.:			
	M. Belecky, $90; City of Fernie, $4.60; Great War Veterans' Association, $90; G. G. Henderson, $140; J. Turner, $6.40	331 00		
	Total expenditure, Fernie Office		1,961 80	
188.	KAMLOOPS OFFICE.			
	Salaries ($1,320):			
	Clerk .....J. H. How	$ 1,320 00		
	Expenses ($824.17):			
	Office Supplies, etc.:			
	E. V. Bergin, $3.75; B.C. Tel. Co., Ltd., $131.75; C.P.R. Tel. Co., $74.39; J. H. Clements, $1.80; N. S. Dalgleish, $1; Dominion Express Co., $6.30; O. Farmer, $60; King's Printer, $22.14; Office Specialty Manufacturing Co., Ltd., $46.61; postage, $37; S. Taylor, $1; C. L. Wain, $1; Wrigley Directories, Ltd., $10	396 74		
	Rent, Fuel, Light, etc.:			
	City of Kamloops, $37.43; G. How, $390	427 43		
	Total expenditure, Kamloops Office		2,144 17	
189.	NANAIMO OFFICE.			
	Salaries ($1,368):			
	Clerks:			
	J. T. Carrigan $1,320 00 H. Proctor $48 00	$ 1,368 00		
	Carried forward	$ 1,368 00	$ 5,972 57	$ 15,977 94

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LABOUR—*Continued.*			
	EMPLOYMENT BUREAUS—*Continued.*			
189.	NANAIMO OFFICE—*Continued.*			
	Brought forward	$ 1,368 00	$ 5,972 57	$ 15,977 94
	Expenses ($735.64):			
	Office Supplies, etc.:			
	A. Barrass, $55; B.C. Telephone Co., Ltd., $78.45 C.P.R. Telegraphs, $9.69; J. T. Carrigan (petty expenses), 75c.; Dominion Express Co., $1.60; H. Hargreaves, $1.50; Jepson Bros., $1; King's Printer, $12.59; Lemon-Gonnason Co., Ltd., $1; M. A. Petre, $65; postage, $15; Wrigley Directories, Ltd., $10	251 58		
	Rent, Fuel, Light, etc.:			
	J. Fox, $480; Nanaimo Electric Light Co., $4.06..	484 06		
	Total expenditure, Nanaimo Office		2,103 64	
190.	NELSON OFFICE.			
	Salaries ($2,432):			
	Clerks:			
	G. Anderson ..$1,500 00 W.M.Macintosh $880 00			
	P. Hanley .... 52 00 ..... .$	2,432 00		
	Expenses ($1,083.33):			
	Office Supplies, etc.:			
	W. Bardsley, $21; B.C. Telephone Co., Ltd., $203.50; C.P.R. Telegraphs, $284.54; Dominion Express Co., $9.30; King's Printer, $32.76; postage, $56; Western Union Telegraph Co., 88c.; Wrigley Directories, Ltd., $10	617 98		
	Travelling Expenses:			
	G. Anderson	270 35		
	Rent, Fuel, Light, etc.:			
	J. T. Russell	195 00		
	Total expenditure, Nelson Office		3,515 33	
191.	NEW WESTMINSTER OFFICE.			
	Salaries ($1,320):			
	Clerk .....,M. Standbridge $1,320 00			
	Expenses ($628):			
	Office Supplies, etc.:			
	A. H. Bacon, $122; B.C.E.R. Co., Ltd., 85c.; B.C. Telephone Co., Ltd., $185.22; Burr Office Supplies, $1; C.P.R. Telegraphs, $10.92; Dominion Express Co., $1; Gray & Howes, 50c.; Hyslop Hardware Co., 75c.; King's Printer, $10.80; postage, $24; O. Swanson, 35c.; Wrigley Directories, Ltd., $10	367 39		
	Travelling Expenses:			
	M. Standbridge	7 00		
	Rent, Fuel, Light, etc.:			
	City of New Westminster, $13.61; S. H. Thompson, $240	253 61		
	Total expenditure, New Westminster Office		1,948 00	
192.	PRINCE RUPERT OFFICE.			
	Salaries ($1,500):			
	Clerk .....J. M. Campbell $1,500 00			
	Expenses ($478.66):			
	Office Supplies, etc.:			
	A. Austin, $45; J. Bohland, $10; Dominion Express Co., 80c.; Dominion Government Tele-			
	Carried forward	$ 1,500 00	$ 13,539 54	$ 15,977 94

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LABOUR—*Continued.*			
	EMPLOYMENT BUREAUS—*Continued.*			
192.	PRINCE RUPERT OFFICE—*Continued.*			
	Brought forward	$ 1,500 00	$ 13,539 54	$ 15,977 94
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	graphs, $37.05; G.T.P. Telegraph Co., $4.75; T. R. Kerr, $13; King's Printer, $16.31; R. P. Latta, $5; J. McMillan, $5; News P. & P. Co., $9.75; postage, $32; Prince Rupert City Telephones, $50; Wrigley Directories, Ltd., $10	238 66		
	Rent, Fuel, Light, etc.:			
	T. McClymont	240 00		
	Total expenditure, Prince Rupert Office		1,978 66	
193.	VANCOUVER OFFICE.			
	Salaries ($24,047.29):			
	Provincial Superintendents:			
	J. H. McVety ..$580 65 A. B. Powley $2,475 00	$ 3,055 65		
	Superintendent (Vancouver Office) ..... W. S. Dickson	1,900 00		
	Chief Clerk (Women's Department) ..... A. L. Davidson	1,200 00		
	Clerks:			
	G. S. Bell ...$1,440 00 J. Mitchell ..$1,500 00			
	F. H. Behnsen 267 10 R. McKellar.. 1,440 00			
	W. H. Cooke.. 1,320 00 R. Parkinson. 273 23			
	H. Crisford .. 1,440 00 W. Simpson.. 1,440 00			
	J. T. Dawson. 700 33 E. Smith 880 00			
	C. Etchell .... 989 03 W. Somerville 720 00			
	C. S. Johnson. 1,440 00 F. Waters ... 1,440 00			
	L. Lowe 80 30	15,369 99		
	Stenographers:			
	D. Beach .....$ 5 00 M. Cameron ...$429 00			
	A. M. Bonshor.. 307 65 I. B. Forsyth .. 75 00			
	V. M. Burton .. 5 00 A. C. McMullin 780 00	1,601 65		
	Janitors:			
	A. Mitchell ....$480 00 E. Walford $60 00			
	J. Newton 380 00	920 00		
		$ 24,047 29		
	Expenses ($15,528.84):			
	Office Supplies, etc.:			
	C. Aherne, $2; B.C. Towel Supply, Ltd., $68.50; B.C. Federationist, $5; B.C. Machinist, 50c.; Brooks-Corning Co., Ltd., $46; E. Brown, 75c.; B.C. Telephone Co., Ltd., $725.58; W. A. Brown, $378.80; The Campaigner, $60; Campbell's Storage, $21.16; C.P.R. Telegraphs, $761.52; Clarke & Stuart Co., Ltd., $43.41; The Comrade, $16; Cowan & Brookhouse, $176.32; Dominion Blue Print & Map Co., 95c.; Dominion Express Co., $24.65; W. W. Fraser, $5.15; L. Gallazin, 75c.; J. G. Garvin, $33; G.N.W. Telegraph Co., $78.84; Haskins & Elliott, 40c.; G. H. Hewitt Co., Ltd., $2.40; W. Holt & Son, $7.65; Hopps Sign Co., $3.75; Hudson's Bay Co., Ltd., 60c.; Ireland & Allan, 75c.; King's Printer, $436.12; R. Mason, $2; G. Milbauer, $3.25; Murray Bros., Ltd., $13.25; W. T. McArthur & Co., Ltd., $33.50; MacLean Daily Reports, Ltd., $80; H. M. Nugent & Co., $10; Office Specialty Manufacturing Co., $59.22; A. F. Parsonage, 50c.; postage, $216.50;			
	Carried forward	$ 24,047 29	$ 15,518 20	$ 15,977 94

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LABOUR—*Continued.*			
	EMPLOYMENT BUREAUS—*Continued.*			
193.	VANCOUVER OFFICE—*Continued.*			
	Brought forward	$ 24,047 29	$ 15,518 20	$ 15,977 94
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	Reliable Transfer Co., $3.35; Reynolds Motor Cartage, $1.90; E. J. Ryan Contracting Co., $6,293.40; Tick & Co., 80c.; United Typewriter Co., Ltd., $26; United Press, Ltd., $80; City of Vancouver, $6; Vancouver Daily Province, $169.20; Vancouver Daily Sun, $100.38; R. T. van Deusen, $1; Western Specialty, Ltd., 70c.; A. Whitehead, 75c.; J. A. Wilson, 50c.; World, Ltd., $179.10; Wrigley Directories, Ltd., $30	10,211 85		
	Travelling Expenses:			
	A. M. Bonshor, $6.55; A. L. Davidson, $97.45; W. S. Dickson, $24.25; J. H. McVety, $203.40; A. B. Powley, $615.31; B.C.E.R. Co., Ltd. (car tickets), $4.20	951 16		
	Rent, Fuel, Light, etc.:			
	B.C.E.R. Co., Ltd., $96.96; Europe Hotel, $2,135.48; R. W. Harris, $1,200; W. T. McArthur Co., Ltd., $900; Universal Electric Co., $33.39	4,365 83		
	Total expenditure, Vancouver Office		39,576 13	
194.	VERNON OFFICE.			
	Salaries ($1,320):			
	Clerk ..... G. E. Street	$ 1,320 00		
	Expenses ($1,024.20):			
	Office Supplies, etc.:			
	C. A. C. Allen, $46.75; A. M. Cameron, $1.50; C.P.R. Telegraphs, $42.18; Dominion Express Co., $4; J. Harwood, $1.50; King's Printer, $27.33; Okanagan Telephone Co., Ltd., $95.20; G. W. Paterson, $21.35; postage, $15; J. Roberts, $120; Vernon Hardware Co., Ltd., $32.15; Wrigley Directories, Ltd., $10	416 96		
	Rent, Fuel, Light, etc.:			
	City of Vernon, $16.55; Cossitt & Lloyd, $252.50; G. Mickleborough's Estate, $291.69; F. A. Whitaker & Co., $46.50	607 24		
	Total expenditure, Vernon Office		2,344 20	
195.	VICTORIA OFFICE.			
	Salaries ($6,840):			
	Superintendent ..... S. H. Creech	$ 1,620 00		
	Chief Clerk (Women's Department) ..... W. Marlatt	1,200 00		
	Clerks:			
	T. Cameron ..$1,440 00 C. Tennent.. $1,440 00	2,880 00		
	Stenographer ..... H. Paget	840 00		
	Janitor ..... A. Swan	300 00		
		$ 6,840 00		
	Expenses ($2,463.69):			
	Office Supplies, etc.:			
	B.C. Telephone Co., Ltd., $250.10; C.P.R. Telegraphs, $43.07; Colonist P. & P. Co., Ltd., $76; S. H. Creech (petty expenses), $4.85; Dominion Express Co., $3.75; Dominion Government Tele-			
	Carried forward	$ 6,840 00	$ 57,438 53	$ 15,977 94

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF LABOUR—*Continued.*			
	EMPLOYMENT BUREAUS—*Continued.*			
195.	VICTORIA OFFICE—*Continued.*			
	Brought forward	$ 6,840 00	$ 57,438 53	$ 15,977 94
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.* graphs, $3.54; W. S. Fraser & Co., Ltd., $13.95; G.N.W. Telegraph Co., $4.15; King's Printer, $75.28; Lemon-Gonnason Co., Ltd., $30.29; New Method Laundry, Ltd., $16.50; postage, $64; Public Works Department, $81.80; Reliable Messenger & Delivery Co., $4.45; Reliable Transfer Co., $1.10; Smith, Davidson & Wright, Ltd., $30.61; Times P. & P. Co., Ltd., $272.24; Wrigley Directories, Ltd., $20	995 68		
	Travelling Expenses: S. H. Creech, $546.20; W. Marlatt, $5	551 20		
	Fuel, Light, Water, etc.: B.C.E.R. Co., Ltd., $16.81; B.C. Land & Investment Agency, Ltd., $900	916 81		
	Total expenditure, Victoria Office		9,303 69	
196.	SUB-AGENCIES.			
	Grand Forks.			
	Salary ($600): Clerk .....R. Campbell	$ 600 00		
	Expenses ($90.53): Office Supplies, Incidentals, etc.: R. Campbell (petty expenses), $76.88; King's Printer, $13.65	90 53		
	Kelowna.			
	Salary ($600): Clerk .....E. W. Wilkinson	600 00		
	Expenses ($38.91): Office Supplies, Incidentals, etc.: C.P.R. Telegraphs, 66c.; Dominion Express Co., 50c.; King's Printer, $5.10; Okanagan Telephone Co., $1.10; postage, $6.05; E. W. Wilkinson (petty expenses), $15.50; Wrigley Directories, Ltd., $10..	38 91		
	Prince George.			
	Salary ($375): Clerk .....G. Sinclair	375 00		
	Expenses ($59.15): Office Supplies, Incidentals, etc.: Canadian Express Co., $3.30; G.T.P. Telegraph Co., $37.30; King's Printer, $13.20; postage, $5.35	59 15		
	Revelstoke.			
	Salary ($375): Clerk .....H. N. Coursier	375 00		
	Expenses ($68.24): Office Supplies, Incidentals, etc.: C.P.R. Telegraphs, $22.94; Dominion Express Co., $2.70; King's Printer, $24.10; postage, $10; Revelstoke, Trout Lake & Big Bend Telephone Co., $2; M. Spicer, $6.50	68 24		
	Total expenditure, Sub-agencies		2,206 83	
	Total expenditure, Employment Bureaus			68,949 05
	Carried forward			$ 84,926 99

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF LABOUR—*Continued.*		
	Brought forward		$ 84,926 99
	SPECIAL WARRANT NO. 13.		
	Crow's Nest Pass Coal Co., claim for compensation		172 35
	SPECIAL WARRANT NO. 23.		
	J. H. McVety, expenses to Ottawa *re* Commission on Unification of Labour Laws		418 90
	SPECIAL WARRANT NO. 38.		
	Relief of Destitution in Provincial Municipalities: Burnaby, $140; Cumberland, $26.22; Nelson, $61.75; New Westminster, $161.17; Prince Rupert, $1,937.05; Vancouver, $82,534.51; South Vancouver, $5,519.30		90,380 00
	Total expenditure, Department of Labour		$ 175,898 24
	DEPARTMENT OF MINES.		
197.	MINISTER'S OFFICE.		
	Salaries ($8,290):		
	Minister of Mines ..... Hon. Wm. Sloan	$ 6,250 00	
	Secretary ..... R. Dunn	2,040 00	
		$ 8,290 00	
	Expenses ($2,098.27):		
	Office Supplies, etc.: British Canadian Distributors, $6.40; B.C. Saddlery Co., Ltd., $26.90; B.C. Telephone Co., Ltd., $219.87; C.P.R. Telegraphs, $221.74; Dominion Express Co., $11.87; Dominion Government Telegraphs, $2.78; Empire Publishing Co., $7.20; Engineering & Mining Journal, $21.44; H. Fleming, $10; Grand Forks Gazette, $10; G.N.W. Telegraph Co., $86.85; T. N. Hibben & Co., $2.25; G. Hornsey, $20; Industrial & Educational Publishing Co., Ltd., $5; King's Printer, $195.28; Kootenaian, $2; Ladysmith Chronicle, $1.50; Lands Department, $14.80; Lemon-Gonnason Co., Ltd., $5; Macey-Abell Co., Ltd., $89.50; Moore Publishing Co., $18; H. C. McLean Co., Ltd., $2; News Publishing Co., Ltd., $11; Northwest Mining Truth, $3.56; Omineca Herald, $2; Port Alberni News, $4; postage, $81.30; Revelstoke Review, $2.50; Technical Press, Ltd., $3; Times P. & P. Co., $12; United Typewriter Co., Ltd., $96.95; Vancouver Province, $4; Vancouver Sun, $6; Vernon News, $2.50; Weiler Bros., Ltd., $5.40; F. C. Winkler, $6; World, Ltd., $6; Wrigley's Directories, Ltd., $10	1,236 59	
	Travelling Expenses: R. Dunn, $161.30; Hon. Wm. Sloan, $700.38	861 68	
	Total expenditure, Minister's Office		$ 10,388 27
198.	GENERAL OFFICE.		
	Salaries ($9,066.66):		
	Deputy Minister ..... R. F. Tolmie	$ 4,000 00	
	Chief Clerk and Gold Commiss'r.. H. Stanton	2,400 00	
	Clerk ..... R. J. Steenson	1,152 00	
	Clerk and Stenographer ..... M. A. Brethour	960 00	
	Stenographers: L. Macklin .....$520 00 M. F. Moffatt $34 66	554 66	
		$ 9,066 66	
	Expenses ($10,982.64):		
	Office Supplies, etc.: B.C. Telephone Co., $119.17; C.P.R. Co., $121.61; Colonist P. & P. Co., Ltd., $12; Dominion of Canada Guarantee & Acci-		
	Carried forward	$ 9,066 66	$ 10,388 27

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF MINES—*Continued.*		
198.	GENERAL OFFICE—*Continued.*		
	Brought forward	$ 9,066 66	$ 10,388 27
	Expenses—*Continued.*		
	Office Supplies, etc.—*Continued.*		
	dent Insurance Co., $2.50; Dominion Express Co., 85c.; Dominion Government Telegraphs, 48c.; W. S. Fraser & Co., $6.82; G.N.W. Telegraph Co., $10.99; E. S. Harris, 50c.; King's Printer, $1,116.05; Lands Department, $20.35; Macey-Abell Co., Ltd., $5; postage, $822.33; E. G. Prior & Co., Ltd., $3.88; Reliable Transfer Co., $3.40; Times P. & P. Co., $12; United Typewriter Co., Ltd., $1.20; Wrigley Directories, Ltd., $10	2,269 13	
	Travelling Expenses:		
	T. J. Shenton	13 25	
	Printing, Binding, and Advertising, etc.:		
	B.C. Financial Times, $300; B.C. Veterans' Weekly, $200; Colonist P. & P. Co., Ltd., $105.38; Dominion Express Co., $5.55; Industrial & Educational Publishing Co., Ltd., $131; King's Printer, $6,048.29; Ledge (Greenwood), $212; Mines Publishing Co., Ltd., $51.05; Mining & Engineering Record, $210; Moore Publishing Co., $165.15; Northwest Mining Truth, $305.50; Portland Canal News, $380; Resources Publishing Co., $180; Times P. & P. Co., Ltd., $310.34; Vancouver Oil & Mining Record, $96	8,700 26	
	Total expenditure, General Office		20,049 30
199.	MINES INSPECTION BRANCH.		
	Salaries ($25,065.14):		
	Chief Inspector of Mines:		
	G. Wilkinson (1 mo. 10 days) .....$509 20 J. McGregor (10 mo. 21 days) $3,861 49	$ 4,370 69	
	Inspectors:		
	J. G. Biggs .....$1,490 33 W. Lancaster .....$ 380 00		
	H. Devlin ..... 2,640 00 J. McDonald 1,487 50		
	T. R. Jackson ..... 2,280 00 T. J. Shenton 2,100 00		
	H. H. Johnstone ..... 1,980 00 R. Strachan 2,750 00	15,107 83	
	Inspectors and Examiners:		
	J. Dickson .....$2,400 00 H. E. Miard $2,400 00	4,800 00	
	Stenographers:		
	M. E. Greig .....$311 62 C. Hick $475 00	786 62	
		$ 25,065 14	
	Expenses ($12,043.10):		
	Office Supplies, etc.:		
	J. G. Biggs (sundry accounts), $5.15; B.C. Telephone Co., $278.84; Campbell Storage Co., 75c.; Canadian Express Co., $3.60; C.P.R. Telegraphs, $21.46; Coal Age, $4; Colliery Guardian, $15.40; J. Dickson (sundry accounts), $82.60; Dominion Express Co., $16.02; Dominion Government Telegraphs, $1.79; G.N.W. Telegraph Co., $29.99; E. S. Harris, 50c.; T. R. Jackson (sundry accounts), $5.94; H. H. Johnstone (sundry accounts), $7.05; King's Printer, $946.76; Kootenay Telephone Lines, Ltd., $79.65; Lemon-Gonnason Co., $19.27; H. E. Miard (sundry accounts), $24.30; J. MacDonald, $9; R. H. McEwan, $21; McGraw-Hill Book Co., $27.03; postage, $181.85; Prince Rupert City, $66.05; Public Works Department, $27; Reliable Transfer Co., $2.59; Remington Typewriter Co., Ltd., $250.40; Royal Candy Co., $25; Royal Typewriter Agency, $25.25; Sanderson Safety Supply Co., $117.54; T. J. Shenton (sundry accounts), $30.30; Smith Bros., $160; R. Strachan (sundry accounts), $28.45; G. D. Tite, $77.50; Wrigley Directories, Ltd., $10	2,602 03	
	Carried forward	$ 27,667 17	$ 30,437 57

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF MINES—*Continued.*		
199.	MINES INSPECTION BRANCH—*Continued.*		
	Brought forward	$ 27,667 17	$ 30,437 57
	Expenses—*Continued.*		
	Travelling Expenses:		
	J. G. Biggs, $444.40; H. Devlin, $246.75; J. Dickson, $1,139.16; T. R. Jackson, $980.15; H. H. Johnstone, $1,152.64; W. Lancaster, $43.15; H. E. Miard, $1,017.05; J. MacDonald, $589.09; J. McGregor, $724.38; T. J. Shenton, $1,435.45; R. Strachan, $1,655.60; G. Wilkinson, $13.25	9,441 07	
	Total expenditure, Mines Inspection Branch		37,108 24
200.	BUREAU OF MINES.		
	Salaries ($12,780):		
	Prov. Mineralogist and Assayer...W. F. Robertson	$ 4,240 00	
	Clerks:		
	E. Hodgkinson .....$1,300 00 H. T. Nation $1,780 00	3,080 00	
	Asst. Assayer and Public Analyst. D. E. Whittaker	2,640 00	
	Laboratory Assistant .....J. Adams	1,560 00	
	Caretaker .....S. Norman	1,260 00	
		$ 12,780 00	
	Expenses ($2,186.41):		
	Office Supplies, etc.:		
	American Institute of Mining & Metallurgical Engineers, $10.90; Baker & Co., Inc., $30.24; B.C. Assay & Chemical Supply Co., Ltd., $507.45; B.C.E.R. Co., Ltd., $4.22; B.C. Government Vendor's Liquor Store, $64; B.C. Telephone Co., Ltd., $133.20; Canadian Express Co., 55c.; C.P.R. Telegraphs, $26.16; J. Cochrane, $10.55; Dominion of Canada Guarantee & Accident Insurance Co., $5; Dominion Express Co., $38.91; Dominion Government Telegraphs, $1.24; Education Department, $2; G. S. Eldridge & Co., $44; Electric Blue Print & Map Co., $6.75; Fleming Bros., $6.50; W. S. Fraser & Co., Ltd., $21.95; G.N.W. Telegraph Co., $24.04; Hutchison Bros. & Co., Ltd., $6.20; Imperial Oil, Ltd., $4.57; Ivel's Pharmacy, $6.70; Kettle Valley Railway, $19.80; King's Printer, $378.88; Lands Department, $26.52; A. H. Maynard, $11.47; Mellor Bros., Ltd., $5.74; Melrose Co., Ltd., $1.45; Mining & Scientific Press, $5.69; McGraw-Hill Book Co., $11.38; McTavish Bros., $2.20; Newhall, Bogardus & Knisely, $52; A. Phillips, $64.35; L. Pitkin, $30; postage, $176.48; Public Works Department, $2.50; Reliable Transfer Co., $32.39; A. Sheret, $3; Simpkin, Marshall & Co., $6.55; Smith & Champion, $8; Society of Chemical Industry, $11.12; Turner, Beeton & Co., Ltd., $9.29; Victoria Book & Stationery Co., Ltd., $6.50; Victoria Gas Co., Ltd., $165.64; E. J. Wall, $4; Wall & Teusz, $7.60; Windsor Grocery Co., $2; Wrigley Directories, Ltd., $10	2,009 68	
	Travelling Expenses:		
	W. F. Robertson	176 73	
	Total expenditure, Bureau of Mines		14,966 41
201.	MINE-RESCUE AND TRAINING STATIONS.		
	Salaries ($4,827):		
	Instructors and Caretakers:		
	J. T. Puckey .....$1,380 00 W. C. Stone .....$ 572 00		
	J. D. Stewart ..... 1,440 00 J. Thomson 1,380 00	$ 4,772 00	
	Temporary Assistance:		
	E. H. Blackmore .....$25 00 T. Horrocks $30 00	55 00	
	Carried forward	$ 4,827 00	$ 82,512 22

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF MINES—*Continued.*		
201.	MINE-RESCUE AND TRAINING STATIONS—*Continued.*		
	Brought forward	$ 4,827 00	$ 82,512 22
	Expenses ($11,207.56):		
	Office Supplies, etc.: B.C. Telephone Co., $144.85; Canadian Collieries (D.), Ltd., $150; Coal Age, $4.42; Dominion Express Co., $63; Fernie City, $62.30; Fernie Free Press, $3.72; King's Printer, $34.92; Kootenay Telephone Lines, $77.10; Nanaimo City, $18.30; Nanaimo Electric Light Co., $12.54; postage, $8; J. T. Puckey (sundry accounts), $12.11	591 26	
	Apparatus and Miscellaneous: Air Liquid Co., Ltd., $25.98; American Atmos Corporation, $199.39; Auto Service Co., $110.35; J. H. Bailey, $243; P. Bennett, $1.85; G. Bowen, $7.75; C.P.R. Co., $5.05; Canadian Western Fuel Co., $2.80; Central Motor Co., $13.80; Compressed Gas Co., $163.91; Crow's Nest Pass Coal Co., $93; H. E. Dendoff, $10.55; Duthie Co., $12.50; East Kootenay Mine Safety Association, $500; Elco Tire Shop, $27.25; Electric Blue Print & Map Co., $10.50; A. E. Ferguson, $10.75; Fernie Co-op. Society, Ltd., $17.50; B. Forcimmer, $480; R. E. Frost, $1.40; J. R. Grayson, $7.25; G.N. Railway Co., $29.09; H. J. Holman, $83.54; Imperial Oil, Ltd., $223.08; E. Kelsey, $8; Kennedy & Mangan, $2.71; R. Kerr, $3.655; Lands Department, 90c.; S. Leiser & Co., Ltd., $6; licences, $49.50; R. Martell, $64.20; Mine Safety Apparatus Co., $1,117.07; A. MacKinnon, $2.75; Nanaimo Vulcanizing Works, $91.75; W. Newton, $1.50; Safety First Supply Co., $331.28; Sampson Motor Co., $63.75; H. H. Sanderson, $743.86; A. Schofield, $47.13; F. C. Stearman, $2.50; J. D. Stewart (sundry accounts), $94.11; J. Thomson (sundry accounts), $24.50; Trites-Wood Co., Ltd., $88; J. Turner, $1.75; Vancouver Province, $16.65; V.I. Mine Safety Association, $1,750; T. Weeks Garage, $5.45; Wellington Collieries Railway Co., $24.55	10,473 20	
	Travelling Expenses: J. T. Puckey	143 10	
	Total expenditure, Mine-rescue and Training Stations		16,034 56
202.	GRANT TO WESTERN BRANCH, CANADIAN MINING INSTITUTE.		
	B.C. Branch, Canadian Mining Institute		1,000 00
203.	GRANT TO CHAMBER OF MINES (CONDITIONAL).		
	B.C. Chamber of Mines		2,500 00
204.	GRANTS TO MINING CONVENTIONS.		
	B.C. Division of Canadian Institute of Mining and Metallurgy, $500; International Mining Convention (Nelson), $1.500		2,000 00
205.	"MINES DEVELOPMENT ACT" (CHAP. 43, 1916), SUPPLEMENTARY.		
	Aldred & Carruthers, $15.50; Algunican Development Co., Ltd., $550.50; A. Allen, $1,913.50; Angell Hardware Store, $7.80; C. A. Baldwin, $500; B.C. Silica & Talc Co., Ltd., $310; Bulkley Transfer Stables, $16; Bullock Mines, Ltd., $446.50; California Mining Co., Ltd., $2,000; E. A. Cameron, $900; Canadian Explosives, Ltd., $109.84; Canadian National Railways, 55c.; C.P.R. Co., $3.98; A. Chisholm, $146.60; City Transfer, $170.50; Consolidated Mining & Smelting Co., $5,750; Cranbrook Cartage Co., $5.70; Crawford Transfer Co., $122.74; R. Cunningham & Son, $22.50; M. S. Davys, $94.50; P. Denhart, $245.80; Dominion Express Co., $9.85; S. A. Eby, $76.15; Egan & McKinnon, $150; T. W. Falconer, $4.60; Farmers' Exchange Association, $16; W. Forrest, $150; H. Fotherby,		
	Carried forward		$ 104,046 78

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF MINES—*Continued.*

205. "MINES DEVELOPMENT ACT" (CHAP. 43, 1916), SUPPLEMENTARY —*Continued.*

Brought forward ..... $ 104,046 78

$3.25; J. Gabriel, $200; R. S. Gallop, $105.67; Green Bros., Burden & Co., $3,142; G. T. Store, $71.90; F. Harper, $72.15; R. R. Hedley, $200; P. Hickey, $9; T. H. Hoben, $105.35; E. Hodgson, $12.90; Hudson's Bay Co., $3.05; J. Hughes, $13.50; Hyder Transfer Co., $694.29; Invermere Con. & Supplies, $31.35; J. M. Jeffrey, $9; C. H. Jones & Sons, Ltd., $82.07; Kaslo Transfer Co., $17.30; C. C. Ketchum, $150; Kispiox Lumber Co., $20.82; Liberator Mining Co., $471.04; G. Mahood, $500; Marsh Mines Development Co., $185.25; J. Mellor, $4.95; F. H. Mobley & Co., Ltd., $59.50; P. L. Mulville, $7.45; J. B. MacKenzie, 55c.; J. McCuish, $25; McGarvey & Kelly, $1,000; L. McInnis, $18; D. A. McKinnon, $200; L. M. McKinnon, $14.95; J. McLean, $2; R. G. McLeod, $97.75; D. McMillan, $361.87; J. McRae, $50; E. B. Nelson, $6; R. Nelson, $5; New Era Mines, Ltd., $215.58; New Waverley Hydraulic Mining Co., $18.60; Northern Development Syndicate, $2,000; O. Olander, $400; Pacific Cartage, Ltd., $1.28; Paine, McIntyre & Dobson, $3.25; F. Parks & Co., $6.20; Premier Gold Mining Co., $10,000; Public Works Department, $1,073.80; Queen Bess Mine Co., $650; A. G. Rebagliati, $190.68; Reid & Legge, $9.36; E. B. Richardson & Co., $111.95; Ruddy & McKay, $29.60; J. M. Ruffner, $274.35; Salmon River Trading Co., $101.50; R. S. Sargent, Ltd., $4.20; Silver City Packing Co., $60; Slocan River Mines, Ltd., $12; H. G. Smith, $3; J. B. Smith, $6.10; Sperry & White, $500; W. B. Steele, $19.50; Stewart News Co., $1.45; Sunloch Mines, Ltd., $250; Toby Creek Mining Co., $192.96; D. Wall, $2; Wilmer Mercantile Co., $2.75; Pay-list, labour, $50,259.02 ..... $ 88,091 15

Total expenditure, "Mines Development Act," Supplementary 88,091 15

206. "MINERAL SURVEY AND DEVELOPMENT ACT" (CHAP. 41, 1917), SUPPLEMENTARY.

Salaries ($42,830.66):				
Resident Engineers:				
W. M. Brewer	$3,600 00	J. D. Galloway	$3,600 00	
G. Clothier	3,600 00	A. G. Langley	3,600 00	
P. B. Freeland	3,600 00	R. W. Thomson	3,600 00	$ 21,600 00
Assistant Engineers:				
B. T. O'Grady	$2,750 00	C. J. Wilson	$1,185 48	3,935 48
Superintendent, Snowstorm Mine		A. K. Stuart		1,850 00
Superintendent *re* Whitewater iron prospects		F. J. Crossland		1,830 00
Pay-list, labour				13,615 18
				$ 42,830 66
Expenses ($30,163.42):				
Travelling Expenses:				
W. M. Brewer, $1,592.70; G. A. Clothier, $2,086.17; F. J. Crossland, $1,756; P. B. Freeland, $1,356.86; J. D. Galloway, $1,655.35; A. G. Langley, $952.85; B. B. O'Grady, $972.31; A. K. Stuart, $104.80; R. W. Thomson, $591.44; C. J. Wilson, $159.67			$ 11,228 15	
G. A. Clothier, disbursements *re* Unuk River reconnaissance			3,520 55	
				14,748 70
Miscellaneous:				
E. L. E. Armstrong, $47.80; Ashcroft Meat Market, $636.72; W. M. Brewer, $795.90; B.C. Draughting & Blue Print Co., $8; B.C. Telephone Co., $8.35; A. B. Campbell, $42.65; Canadian Morton Co., Ltd., $40.13; Canadian Express Co., $1.60; Canadian Fairbanks-Morse Co., $1,169.15; C.P.R. Co., $1.20; Canadian Western Fuel Co., $44.35; C. R. Carfrae,				
Carried forward			$ 57,579 36	$ 192,137 93

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF MINES—*Continued.*		
206.	"MINERAL SURVEY AND DEVELOPMENT ACT" (CHAP. 41, 1917), SUPPLEMENTARY—*Continued.*		
	Brought forward	$ 57,579 36	$ 192,137 93
	Expenses—*Continued.*		
	Miscellaneous—*Continued.*		
	$1.88; Cariboo Trading Co., $38.30; C. E. Cartwright, $200; G. Chataway, $888.14; G. A. Clothier, $189.55; L. J. Crosina, $8.60; F. J. Crossland, $1,469.80; F. Deeley, $875.10; Dominion Express Co., 35c.; Dominion Government Telegraphs, $11.84; Dominion Rubber System, Ltd., $47.91; W. S. Drewry, $160; M. Dumond, $218; Electric Blue Print & Map Co., $43.15; Fraser & Mackenzie, $80.02; P. B. Freeland, $279.90; G. J. Frizzell, $213.61; J. D. Galloway, $309.93; Granby Consolidated Mining & Smelting Co., $25; Grand Forks Garage, $1,780; G.N.W. Telegraph Co., $2.11; W. Hargraves, $32.95; Harvey-Bailey, Ltd., $1,846.15; T. N. Hibben & Co., $3; Hurley & Prosser, $306.57; R. W. Irwin, $75; F. Jeune & Bro., Ltd., $38.85; Kamloops Sash & Door Factory, $22.17; King's Printer, $139.26; A. G. Langley, $343.84; R. H. Lee, $176; E. Lipsett, $49.49; Lipsett, Cunningham & Co., $9.90; Macey-Abell Co., Ltd., $127.75; J. F. Maguire, $76; S. G. Marwick, $28.28; A. Meiss, $5.51; McLennan, McFeely & Co., Ltd., $6.45; McRae Bros., Ltd., $25; B. T. O'Grady, $33.34; Ormes, Ltd., $7.20; Prince Rupert Boat-house, $145.75; E. G. Prior & Co., $22.05; W. H. Reid, $42; M. Ritchie, $6.50; R. Robertson, $6.20; Sabulite Explosives, Ltd., $16.03; Salmon River Trading Co., $542.10; R. S. Sargent, $220; Seal Cove Marine Ways, $126; Stewart & Mobley, Ltd., $207.59; A. K. Stuart, $11.92; R. W. Thomson, $166.96; Thompson Hardware Co., Ltd., $72.80; United Typewriter Co., Ltd., $12.25; A. C. Vincent, $353.40; A. V. Walters, $153.32; G. H. Walters, $78.10; G. Wilkinson, $180; Wrigley Directories, Ltd., $60	15,414 72	
	Total expenditure, "Mineral Survey and Development Act," Supplementary		72,994 08
	SPECIAL WARRANT NO. 3, RE OUTFITTING PARTIES OF RETURNED SOLDIERS AS PROSPECTORS.		
	Armstrong & Webster, $771.80; Butcher & Merry, $644.89; Crofton & Gilson, $447.10; C. H. and P. Fitzherbert, $631.50; Forster, Schroeder & Conway, $1,579.70; J. B. Galloway (incidentals), $2.10; A. G. Langley (incidentals), $5; Lund & Kempe, $682.05; Mitchell & Henslowe, $860.25; Murdock & Young, $490; Neill & Winfield, $773.84; O'Kell & Moulton, $856.10; Pickard & Pearson, $659.30; Pratt & Houldsworth, $914.33; Ramsay & Rochfort, $824.64; Ryan & Muirhead, $824.58; Slavin & Hilbert, $351.13; Stewart & Woodward, $651.90; R. W. Thomson (incidentals), $2.06; Walker & Roberts, $869.35; Wallace & Macdonald, $717.15; Whaley & Chappell, $1,036.45; Woollacott & Conway, $741.35		15,336 57
	STATUTORY EXPENDITURE.		
	"Taxation Act," R.S.B.C. 1911.		
	T. Trenery		56 89
	"Mineral Survey and Development Act, 1917."		
	Ashcroft Meat Market, $67.65; B.C. Telephone Co., Ltd., $2; Canadian Express Co., $1.55; G. Chataway, $40.75; Dominion Express Co., $1.75; W. Hargraves, $12; Harvey & Bailey, Ltd., $143.57; International Diamond Drill Contracting Co., $13,215.07; Lands Department, $2.70; M. E. Lauder, $33.25; R. H. Lee, $48; R. S. Sargent, $15; A. K. Stuart, $15.57; A. C. Vincent, $48.20		13,647 06
	"Complex Ore Process Aid Act, 1916."		
	G. H. Aylard		2,000 00
	"Complex Ore Process Further Aid Act, 1918."		
	Bank of Montreal, $875; Canadian Bank of Commerce, $875		1,750 00
	Carried forward		$ 297,922 53

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF MINES—*Continued.*		
	STATUTORY EXPENDITURE—*Continued.*		
	Brought forward		$ 297,922 53
	"Iron-ore Supply Act, 1919."		
	B.C.E.R. Co., Ltd., $50; Mainland Transfer Co., $340.29; Turnbull Bros., $1 ..		391 29
	"Coal-mines Regulation Act," R.S.B.C. 1911, and Amendments.		
	W. Anderson, $17.50; J. Atkinson, $16; J. Ballance, $9.75; J. Barton, $8; J. Bateman, $26; H. Beard, $10; N. Bell, $8; A. Bird, $8; C. M. Booth, $3.50; G. Bradshaw, $8; W. Brough, $16; P. Bruce, $74.66; M. Celle, $49.60; R. Derbyshire, $8; Dominion Government Telegraphs, $17.60; R. Draper, $8; A. Dunn, $8; W. English, $8; J. Evans, $4.10; R. Gaskell, $15.75; E. C. Gibson, $146.60; D. Gourlay, $27.50; R. Guest, $8; J. Higginson, $8; G. Hoggan, $10.30; T. Honeyman, $9.50; T. Hunter, $9.50; W. Hunter, $8; R. Jacobs, $2; A. Jordan, $9.50; E. Kelsey, $19.50; D. Kirkbride, $8; T. Lloyd, $4.10; A. Mawhinney, $8; J. Miller, $16; E. Morrison, $8; A. MacKinnon, $10; J. R. McKenzie, $16; J. McMillan, $21.08; P. McNiven, $47.66; Nanaimo Free Press, $42; F. Nee, $8; R. Rivers, $30.58; D. L. Robertson, $31.66; S. Robertson, $8; M. Robinson, $8; O. Salonen, $9.50; G. Sawyer, $20.90; H. Shepherd, $50; D. Stewart, $47.66; S. Swanson, $9.75; J. Taylor, $47.66; N. Thompson, $18; J. Thompson, $4.10; W. Thompson, $20.88; H. Todd, $43; H. Walker, $8; R. C. Walker, $66.75; W. H. Wall, $50; T. Whitehouse, $15.50; W. Whitehouse, $8		1,269 64
	Total expenditure, Department of Mines		$ 299,583 46
	DEPARTMENT OF THE PROVINCIAL SECRETARY.		
207.	MINISTER'S OFFICE.		
	Salaries ($7,390):		
	Provincial Secretary ..... Hon. J. D. MacLean	$ 6,250 00	
	Acting-Secretary ..... J. H. W. Fergusson	1,140 00	
		$ 7,390 00	
	Expenses ($2,215.28):		
	Office Supplies, etc.:		
	B.C. Financial Times, $2; B.C. Telephone Co., Ltd., $122.80; C.P.R. Telegraphs, $54.63; Canadian Parliamentary Guide, $3; Citizens Research Institute of Canada, $5; Colonist P. & P. Co., Ltd. $12; Copp-Clark Co., Ltd., $3.50; Dominion Express Co., $7.75; Fairplay, $1.50; Grand Forks Gazette, $8; G.N.W. Telegraph Co., $51.20; Hammond Gazette, $1.50; E. S. Harris, 50c.; Hospital World, $3; Kamloops Telegram, $1.50; King's Printer, $266.85; Macey-Abell Co., Ltd., $18; News P. & P. Co., Ltd., Nelson, $6; postage, $157.10; Revelstoke Review Publishing Co., Ltd., $5; Smith & Champion, $4.20; Social Service Council of Canada, $1.50; Times P. & P. Co., Ltd., $12; The Tranquillian, $1; Vancouver Daily Province, $10; Vancouver Daily Sun, $5; Weekly Gazette, $1.50	766 03	
	Travelling Expenses:		
	Hon. J. D. MacLean	1,449 25	
	Total expenditure, Minister's Office		$ 9,605 28
208.	GENERAL OFFICE.		
	Salaries ($11,073.24):		
	Deputy Provincial Secretary ..... J. L. White	$ 3,720 00	
	Chief Clerk ..... P. Walker	2,340 00	
	Postal Clerk ..... F. G. Maynard	1,780 03	
	Clerk ..... M. E. Rickaby	900 00	
	Stenographer ..... E. C. Brown	780 00	
	Junior Clerk ..... F. Hurley	660 00	
	Temporary Assistance:		
	M. Comber .....$ 16 25 H. H. Piton .....$ 7 50		
	J. J. Grant ..... 3 75 D. L. Scott 20 00		
	Carried forward	$ 10,180 03	$ 9,605 28

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
208.	GENERAL OFFICE—*Continued.*		
	Brought forward	$ 10,180 03	$ 9,605 28
	Salaries—*Continued.*		
	Temporary Assistance—*Continued.*		
	V. Josephs .....$679 00 J. L. Ward $121 71	893 21	
	L. Parfitt 45 00		
		$ 11,073 24	
	Expenses ($2,748.83):		
	Office Supplies, etc.:		
	B.C. District Telephone & Delivery Co., Ltd., 50c.; B.C. Telephone Co., Ltd., $179.59; C.P.R. Telegraphs, $116.99; Canadian Parliamentary Guide, $3; Carter Electric Co., Ltd., $30; J. Cronk, $13.50; Dominion of Canada Guarantee & Accident Insurance Co., $5; W. S. Fraser & Co., Ltd., $7.57; G.N.W. Telegraph Co., $34.35; E. S. Harris, 50c.; Henderson Directory Co., $8; King's Printer, $1,590.68; Little & Taylor, $2.50; postage, $265.04; Public Works Department, $5; Reliable Messenger & Delivery Co., $18.50; Reliable Transfer Co., $215.75; A. Sheret, $12.84; Times Printing & Publishing Co., Ltd., $10.20; United Typewriter Co., Ltd., $38.25; Vancouver Daily Province, $4; Vancouver Daily Sun, $5; Weiler Bros., Ltd., $1.58; Wrigley Directories, Ltd., $20	2,588 34	
	Travelling Expenses:		
	P. Walker, $99.94; J. L. White, $60.55	160 49	
	Total expenditure, General Office		13,822 07
209.	PROVINCIAL BOARD OF HEALTH.		
	Salaries ($17,161.73):		
	Secretary .....H. E. Young	$ 4,320 00	
	Hospital Inspector and Travelling Officer .....E. C. Arthur	3,600 00	
	Chief Sanitary Inspector .....F. DeGrey	2,400 00	
	Clerk .....C. Hamilton	1,020 00	
	Junior Clerk .....A. Chrow	780 00	
	Deputy Registrars of Births, Deaths, and Marriages:		
	M. Miller .....$143 33 H. B. French $1,540 00	1,683 33	
	Clerks:		
	K. E. Brown .....$1,155 00 R. A. Meakin $173 40	1,328 40	
	Junior Clerk .....J. T. Marshall	960 00	
	Stenographers:		
	G. Parks .....$695 00 D. Scott $30 00		
	A. Sarson .....$ 45 00	770 00	
	Messenger .....L. C. Curtis	300 00	
		$ 17,161 73	
	Expenses ($56,062.04):		
	Office Supplies, etc.:		
	Amer. Child Hygiene Association, $5.70; Amer. Medical Association, $6.50; Amer. Public Health Association, $5.61; Baillière, Tindall & Cox, $2.35; B.C. Telephone Co., Ltd., $159.95; British Medical Association, $27.74; Burroughs Adding Machine of Canada, Ltd., $6.50; Cambridge University Press, $8.22; Canadian Medical Association, $5; Canadian Nurse and Hospital Review, $2; Canadian Public Health Association, $3; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; W. S. Fraser & Co., Ltd., $2.85; E. S. Harris, 50c.; T. N. Hibben & Co., $1.80; International Journal of Public Health, $5; King's Printer, $4,698.34; Lancet, $10.03; Lands Department, 90c.; Macey-Abell Co., Ltd., $22.50; Macmillan Co. of Canada, Ltd., $3; National Tuberculosis Association, $5.35; Pacific Coast Lumberman, $2; postage, $597.28; Royal Sanitary Institute, $2.05; United Typewriter Co., Ltd., $162.45; Wrigley Directories, Ltd., $10	5,757 87	
	Carried forward	$ 22,919 60	$ 23,427 35

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
209.	PROVINCIAL BOARD OF HEALTH—*Continued.*		
	Brought forward	$ 22,919 60	$ 23,427 35
	Expenses—*Continued.*		
	Travelling Expenses: E. C. Arthur, $2,650.37; G. E. Ashton, $32.70; F. DeGrey, $1,053.68; P. W. Jupp, $26.75; J. Mead, $6.65; M. A. Mackenzie, $56.45; E. McLuhan, $40; P. Smith, $18.35; H. E. Young, $444.02		
	Upkeep of Launch "Sanita": B.C. Government Liquor Vendor, $23.50; Can. Fairbanks-Morse Co., $4.61; Chappell Bros., $70; Cowie Machine Co., $54.20; G. Halliday & Sons, Ltd., $6.85; Imperial Oil, Ltd., $267.41; C. H. Jones & Son, Ltd., $32; H. O. Kirkham & Co., Ltd., $36.55; E. Lipsett, $29.75; Mouat Bros. Co., Ltd., $2.43; F. McQuarrie, $137.50; City of New Westminster, $21.60; G. Reid, $4; Share Bros., Ltd., $55.09; E. Shiles, $35; Simson, Balkwill & Co., Ltd., $73; J. Smithers, $76; D. Spencer, Ltd., $296.71; Terminal Sheet Metal Works, $2.70; S. J. Towgood, $6; Vancouver Ship Yard, Ltd., $101.85; Victoria Tent Factory, $8.75; Vivian Gas Engine Works, $24; West Disinfecting Co., $39	5,737 47	
	Medical Inspection of Schools: J. E. Affleck, $14.50; F. W. Andrew, $30.50; M. G. Archibald, $98; W. E. Bavis, $215.50; T. E. Beech, $97; L. Broe, $79.50; W. Buchanan, $21.50; E. Buckell, $158; J. M. Burnett, $207.50; J. Christie, $116.50; A. M. Cleland, $57; Columbia Coast Mission, $38; D. Corsan, $39; F. E. Coy, $54.50; L. T. Davis, $325.75; D. S. Dixson, $33; J. C. Elliot, $68; R. Elliot, $30.50; R. J. Elvin, $63.50; P. J. Emerson, $76.50; C. Ewart, $63; P. Ewart, $140.50; R. Felton, $221.50; H. R. Fort, $61.50; E. Gomm, $138.50; A. A. Gray, $33.50; E. H. Gray, $97.50; J. H. Hamilton, $205.50; J. Hayes, $5; A. Henderson, $111; G. B. Henderson, $243; J. C. Henderson, $15; F. Inglis, $9; Irving & Murphy, $289; A. V. Jones, $553; H. W. Keith, $97; J. E. H. Kelso, $104.50; Knox & Campbell, $198; R. W. Large, $74; R. G. Lawrence, $5; O. O. Lyons, $22; C. G. G. Maclean, $16; L. Macmillan, $105; H. Meadows, $36.50; Millard & Butters, $26; A. D. Morgan, $55.50; G. Morse, $13; G. K. McNaughton, $116.50; P. S. McCaffrey, $33; H. McGregor, $89; E. H. S. McLean, $185; T. J. McPhee, $443; A. C. Nash, $41.50; R. E. Page, $34.50; N. J. Paul, $13; S. Petersky, $11; G. C. Read, $136; W. Reinhard, $51.50; E. Rice, $23.50; G. W. Roberts, $57; F. F. Saunders, $157.50; W. Scatchard, $185.50; W. F. Shaw, $196; L. Smith, $118.25; R. G. Stevenson, $17.50; W. R. Stone, $263; A. J. Stuart, $55; E. M. Sutherland, $241; T. A. Swift, $49; W. Truax, $169.50; P. D. van Kleeck, $48; H. N. Watson, $60.50; R. C. Weldon, $124; G. Williams, $164; I. H. Wright, $148; H. C. Wrinch, $194	8,188 50	
	Incidentals and Emergencies: F. D. Abbott, $600; Ah Yen, $18.50; The Ark, $6.50; City of Armstrong, $302.05; T. J. Armstrong, 74c.; M. M. Arnott, $65; P. Badman, $12; B. Baker, $2; R. E. Baxter, $3.50; G. D. Beattie, $36.25; A. Bedford, $19; S. E. Beech, $76.50; Bella Bella-Rivers Inlet Hospital, $104; L. Bolieu, $96; E. Bray, $40.15; J. M. Burnett, $30; P. Burns & Co., Ltd., $23.60; Burris, Archibald & Burris, $329.50; Burroughs Adding Machine of Canada, Ltd., $11.70; L. C. Byers, $100; J. F. Callbreath, $10; C. & C. Taxi Service, Ltd., $5; D. E. Campbell, $14.69; J. R. Campbell, $9.75; Canadian Express Co., $24.22; Canadian Fairbanks-Morse Co., Ltd., $28.25; C.P.R. Co., $221.66; Canadian Public Health Association, $550; Chandler & Fisher, $35; G. A. Cheeseman, $27; F. Chilton, $52.50; Choquette Bros., $4.05; D. A. Clark, $17.50; C. W. B. Cochrane,		
	Carried forward	$ 36,845 57	$ 23,427 35

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*

209. PROVINCIAL BOARD OF HEALTH—*Continued.*

Brought forward ..... $ 36,845 57 $ 23,427 35

Expenses—*Continued.*

Incidentals and Emergencies—*Continued.*

$18.40; D. Cochrane, $2.75; J. Cochrane, $4.50; A. K. Connolly, $20; J. Cook, $6; D. Corsan, $495; M. Costollo, $3; Cranbrook Board of School Trustees, $50; A. D. Creer, $294; Crow's Nest Trading Co., Ltd., $69.65; M. Currie, $5; T. E. Cutler, $6; E. Davies, $208; C. H. Dawson, $50; C. C. Day, $7; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $27.80; Dominion Government Telegraphs, $10.88; Douglas Lake Cattle Co., $19.40; I. F. Downie, $80; Drake Hardware Co., Ltd., $2.85; R. Elliot, $12.50; C. Ewart, $132; J. C. Farish, $125; R. Felton, $99.50; Fernie Free Press, $36.80; G. Fisher, $1.50; Fort George Drug Co., $4.90; A. H. Foster, $86.55; J. J. Fowler, $132; W. S. Fraser & Co., Ltd., 61c.; H. B. French, $1.71; French Steam Laundry, $6.75; W. S. Garrison, $12; Georgia Pharmacy, $69.53; Glover Research Laboratories, $25; Golder & Weiland, $4.90; W. E. Gomm, $25; F. W. Gooderham, $4; G.N.W. Telegraph Co., $168.23; J. C. Hamilton, $105.20; J. H. Hamilton, $40; H. R. Hammond, $225; C. H. Hankinson, $50; B. J. Hawkins, $8.75; G. B. Henderson, $28.50; C. T. Hilton, $20.50; E. Hilton, $165; W. Hilton, $90.95; J. Hirst, $8; J. D. Hobden, $214.20; W. T. Holmwood, $5; A. E. House Co., $55.55; Hudson's Bay Co., $79.05; H. D. Hughes, $118.65; S. S. Hutchison, $7.50; J. Hyland Estate, $122.65; Ingham & Wilks, $10; E. B. Irving, $8.50; J. A. Irving & Co., $14.30; W. F. Islip, $25; W. R. Jaynes, $25; J. A. Johnson, $19.50; L. A. Johnson, $266.60; A. V. Jones, $106.60; P. W. Jupp, $20.50; Kamloops Emergency Hospital, $1,000; H. G. Kelly, $38.20; J. E. H. Kelso, $13; Kenney Bros. & Co., $24.65; King's Printer, $16.70; H. Kirk, $25.70; Kootenay Telephone Lines, Ltd., $2; R. A. Lambert, $4.95; J. A. Leask, $15; Lemon-Gonnason Co., Ltd., $59.73; G. Lequette, $10; D. Lewis, $544.50; J. Leonard, $5; Lucia Meat Co., $3.75; Macmillan Co. of Canada, $44.38; J. S. Macpherson, $15; J. F. Madore, $26; H. W. Main, $20.50; L. Manuel, $5; C. I. Margeson, $30; J. Marshall, $62.50; S. Marshall, $8; W. E. Marshall, $13.75; W. Martin, $115; T. Miller, $18.50; M. Moss, $225; M. Motion, $65; McBride Trading Co., $69.09; J. McCormick, $12.95; H. J. McDougall, $10.40; M. D. McEwen, $54; A. McInnis, $12.20; M. J. McInnis, $37.60; T. R. McLay, $3.50; E. H. S. McLean, $33.50; F. McLean, $7; McLean's Drug & Book Store, $22.30; National Council for Combating Venereal Diseases, $4.66; J. Nay, $17.50; City of Nelson, $71; Nelson Transfer Co., $5; Newcombe, Martin & McCarley, $75; Ormes, Ltd., $33.75; Pacific Coast Lumberman, $36; H. F. Parke, $10; Parke, Davis & Co., $1,304.03; J. G. Pierce, $50; S. Petersky, $15; J. Pilkington, $105; Poole Drug Co., $8.40; Princeton Drug & Book Store, $26.85; Princeton Pharmacy, $1.50; Provincial Police, $132; Public Works Department, $519; Pylewell Ranch, $8; J. D. Quail, $5.55; Quesnel Auxiliary Hospital, $332.80; Reliable Transfer Co., $4.65; W. S. Rhycard, $40; H. Riley, $30.25; Royal Inland Hospital, $530.50; Royal Society of Tropical Medicine and Hygiene, $7.08; Saanich Branch Victoria Order of Nurses, $1,000; A. Saint, $67.30; St. Eugene Hospital, $51.75; Salmon Arm General Hospital, $347.60; L. Smith, $139; W. J. Smith, $75.60; W. Somerton, $3.50; F. C. Sorge, $5; Spalding Art Studio, $20; M. Stainton, $64.05; G. Stanfield, $6.50; J. Stewart, $68.05; J. W. Stewart & Co., $10.91; D. Stokak, $33; A. J. Stuart, $33; N. E. Suddaby, $9.90; E. M.

Carried forward ..... $ 36,845 57 $ 23,427 35

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
209.	PROVINCIAL BOARD OF HEALTH—*Continued.*		
	Brought forward	$ 36,845 57	$ 23,427 35
	Expenses—*Continued.*		
	Incidentals and Emergencies—*Continued.*		
	Sutherland, $58.50; Synthetic Drug Co., Ltd., $273.73; J. B. Thom, $86; Times Printing & Publishing Co., Ltd., $12; S. Travis, $18; W. C. Troyer, $10; W. Truax, $107; G. H. Tutill, $53; Valley Meat Co., $20.80; Vancouver Daily Province, $105; Vancouver Daily Sun, $5.85; Vancouver General Hospital, $16; Victoria Gas Co., $4.60; W. P. Walker, $18.50; F. W. Warren, $180; W. E. Waugh, $99.80; Weiler Bros., Ltd., $19.09; J. Weshren, $188; West Disinfecting Co., $56.72; A. L. White, $36.50; A. P. Whiteman, $102; R. Wightman, $20.75; C. Willarson & Co., $28; H. W. H. Willes, $4.50; G. B. Williams, $293.10; R. E. Williams, $5; G. H. Wilson, $10; B. Wilson Co., Ltd., $32.95; Women's Canadian Club, $17.50; Working Men's Co-operative Store, $43.10; H. C. Wrinch, $69.50; Yeld & Kelso, $6.75; Yukon Telegraphs, $4.25; pay-lists, annual health reports (51), $255; pay-lists, tuberculosis reports, $103		17,395 84
	Special Clinic.		
	Salaries:		
	Physicians:		
	J.E.Campbell $1,850 00 T. Miller $1,800 00		
	J. Gibbs 1,850 00	$ 5,500 00	
	Orderlies:		
	A. W. Evans 1,500 00 J. Goodfellow.. 200 00		
	W. H. Evans 1,500 00	3,200 00	
	Case Recorder ..... S. R. Williams	1,375 00	
	Nurses:		
	E. V. Cameron 1,500 00 E. Tyre 1,080 00	2,580 00	
	Caretaker ..... T. Thynne	1,080 00	
		$ 13,735 00	
	Expenses:		
	J. Anderson, 50c.; H. T. Archbold, $500; Board of Health of Ontario, $237.50; B.C.E.R. Co., Ltd., $9.38; B.C. Government Vendor's Liquor Store, $12; B.C. Ironworks, Ltd., $101.10; B.C. Pharmacal Co., Ltd., $127.94; B. C. Stevens Co., Ltd., $8.40; B.C. Telephone Co., Ltd., $7.47; Cameron & Calwell, $5; D. E. Campbell, $136.75; Canadian Express Co., $1.10; Canadian National Council for Combating Venereal Diseases, $3.33; Canadian Northern Express Co., $12.15; Carter Electric Co., Ltd., $15.04; Chandler & Fisher, $989.03; Department of Militia and Defence, Ottawa, $36; Department of Militia and Defence, M.D. No. 11, $31.10; Dominion Express Co., $4; Douglas, Mackay & Co., $33.75; Drake Hardware Co., Ltd., $81.62; R. Hall & Sons, $4; Heisterman, Forman & Co., $500; Ivel's Pharmacy, $6; King's Printer, $145.30; Lederle Antitoxin Laboratories, $84.60; Lee & Fraser, $55.60; Lemon-Gonnason Co., Ltd., $10.30; Mackay & Gillespie, Ltd., $87; F. Mellor, $15.50; W. R. Menzies & Co., $180; Macmillan Co. of Canada, $22.50; McDowell & Mann, $4.70; New Method Laundry, Ltd., $62.45; Office Specialty Manufacturing Co., $113.55; D. Spencer, Ltd., $12.35; Synthetic Drug Co., Ltd., $805.10; Turner, Beeton & Co., Ltd., $11.04; J. Tyre, $35.10; Van-		
	Carried forward	$ 13,735 00	$ 54,241 41 $ 23,427 35

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
209.	PROVINCIAL BOARD OF HEALTH—*Continued.*			
	Brought forward	$ 13,735 00	$ 54,241 41	$ 23,427 35
	Expenses—*Continued.*			
	Special Clinic—Continued.			
	Expenses—*Continued.*			
	couver General Hospital, $624.88; City of Victoria, $26.48; Victoria Gas Co., Ltd., $28.63; Victoria Steam Laundry, $44.60; F. Vinall & Sons, $35; W. Walker & Son, $27; Wall & Teusz, $27.43; Weiler Bros., Ltd., $33.68; B. Wilson Co., Ltd., $3.50	5,359 45	19,094 45	
			$ 73,335 86	
	By cash		112 09	
	Total expenditure, Provincial Board of Health			73,223 77
210.	PROVINCIAL LIBRARY AND ARCHIVES.			
	Salaries ($11,010):			
	Librarian and Archivist ..... J. Forsyth		$ 2,400 00	
	Chief Cataloguer ..... A. M. Russell		1,720 00	
	First Assistant Cataloguer ..... M. Wolfenden		1,180 00	
	Legislative Reference Clerk ..... J. Hosie		1,540 00	
	Reference Clerk ..... M. Holmes		1,020 00	
	Clerk ..... G. Bidlake		65 00	
	Stenographers:			
	M. Anderson .....$870 00 R. Hinton $70 00		940 00	
	Archives Indexer ..... M. Cree		870 00	
	Junior Clerks:			
	E. F. G. McGregor ...$870 00 J. Underwood $405 00		1,275 00	
			$ 11,010 00	
	Expenses ($9,716.68):			
	Office Supplies, Books, Subscriptions, etc.:			
	Academy of Political Science, $5; Advertiser Publishing Co., $27.41; A. L. A. Publishing Board, $3.84; Alberta Farmer and Calgary Weekly Herald, $2; E. G. Allen & Son, Ltd., $666.25; American Academy of Political and Social Science, $3.53; American Ceramic Society, $122.25; American Civic Association, $5; American Historical Association, $1.24; American Institute of Electrical Engineers, $6.67; American Issue Publishing Co., $1.59; American Library Association, $4.79; W. H. Anger, $3.50; D. Appleton & Co., $78.86; Ashcroft Journal, $5; N. W. Ayer & Son, $17.25; W. W. Baer, $1.50; R. S. Baker, $1,042.33; Baker & Taylor Co., $91.24; Bancroft-Whitney Co., $44.42; M. Bender & Co., $82.31; Bender-Moss Co., $9.28; A. Booth, $40; E. Bounds, $7; R. R. Bowker Co., $4.98; British Canadian Distributors, $47.40; B.C. Financial Times, $2; B.C. Telephone Co., Ltd., $255.59; British Science Guild, $4.37; The Britons, $1.14; Bruce Publishing Co., $12.92; Buffalo Law Library, $2; Burroughs & Co., $180.55; Butterworth & Co., Ltd., $10.15; Cadmus Book Shop, $4.50; California State Automobile Association, $5; Canada Law Book Co., Ltd., $112.65; Canada Steamship Lines, Ltd., $2; Canadian Annual Review, Ltd., $18.87; Canadian Facts Publishing Co., 30c.; Canadian Forestry Association, $4; Canadian Gazetteer Publishing Co., $12.50; Canadian Law List Publishing Co., $7.50; Canadian Manufacturers' Association, $6; Canadian Medical Directory, $5; Canadian Military Gazette, $2.50; Canadian Northern Railway, $19.70; C.P.R. Telegraphs, $11.42; Canadian Parliamentary Guide, $9; Canadian War Memorials Exhibition, $52.50;			
	Carried forward		$ 11,010 00	$ 96,651 12

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*

210. PROVINCIAL LIBRARY AND ARCHIVES—*Continued.*

Brought forward ..... $ 11,010 00 $ 96,651 12

Expenses—*Continued.*

Office Supplies, Subscriptions, etc.—*Continued.*

Cariboo Observer, $2; Carswell Co., Ltd., $737.60; F. C. Carter, $4.76; Carter Electric Co., Ltd., $4.50; Century Co., $2.70; Child-welfare Magazine, $1; Chronicle Co., Ltd., $9; A. H. Clark Co., $37.50; T. & T. Clark, $7.88; Clerk of Legislative Assembly, Saskatchewan, $14.25; Colonist P. & P. Co., Ltd., $48.60; Columbia University, $2.91; Columbian Co., Ltd., $6; Comox Argus, $2; H. Cooper, $32.50; Copp-Clark Co., Ltd., $3.12; Cowan & Brookhouse, $6.25; Cowichan Leader P. & P. Co., Ltd., $2; Cranbrook Courier, $2.50; Cranbrook Herald, $2; H. C. Crawford, $13.71; Creston Review, $4.50; Cross-France Co., $7.20; Cumberland Islander, $2; J. T. Deaville, $51; J. M. Dent & Sons, Ltd., $28.68; H. Dessain, 25c.; The Dial, $3.80; Dodd, Mead & Co., $12.56; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $34.81; R. Douglas, $7; Drake Hardware Co., Ltd., $4.90; Edmonton Bulletin, $5; Empire Publishing Co., $7.20; E. & N. Railway Co., $20.56; Eyre & Spottiswoode, Ltd., $248.29; J. Fairfax & Sons, Ltd., $16.04; Farm and Home, $1; F. W. Faxon Co., $48.73; S. R. Fay, $240.75; Fine Arts Guild, 72c.; E. Fleming, $154.15; H. Fleming, $29.50; Flying and Aero Club of America Bulletin, $4; J. Forsyth, $53.68; W. S. Fraser & Co., Ltd., $1.10; Freeman & Co., $150; H. Gagnier, Ltd., $3; Gaylord Bros., $14.46; Geographia, Ltd., $13.22; The Gleaner, $8; R. E. Gosnell, $12; G.N.W. Telegraph Co., $4.30; Hakluyt Society, $16.80; Halifax Herald, $8; Harcourt, Brace & Howe, $2.44; Harper & Brothers, $2.81; E. S. Harris, $1; Heaton's Agency, $9.30; Henderson Directory Co., $95; T. N. Hibben & Co., $192.24; Hodder & Stoughton, 55c.; Houston's Standard Publications, $8.16; Illinois Law Review, $1.13; Independent Corporation, $5; Iron & Steel Institute, $7.45; Jay's, Ltd., $93.90; Johns Hopkins Press, $3.08; Journal of the American Institute of Criminal Law and Criminology, $3.50; Kamloops Standard-Sentinel, $3; Kamloops Telegram, $1; Kelly Publishing Co., $50.94; Kelowna Courier, $2; P. S. King & Son, Ltd., $12.38; King's Printer, $1,201.26; Kootenaian, $2; T. Law Book Co., $58.16; Law Reporting Co., $25; Leader Publishing Co., Prince George, $2; Leader Publishing Co., Regina Saskatchewan, $12; l'Eclaireur, Ltée., $4; The Ledge, $2.50; l'Evenement, $3; Library of Congress, $57.49; H. O. Litchfield, $5.25; Longmans, Green & Co., $19.42; Macey-Abell Co., Ltd., $130.30; J. R. Mackie, $21.80; Macmillan Co. of Canada, Ltd., $93.39; Manchester Guardian, $3.48; Marshall-Jones Co., $5; W. M. Mayes, $25.62; A. H. Maynard, $1.25; E. Meeker, $3; D. Menzies, $14.56; Miller & Richard, $29.10; Mississippi Valley Historical Association, $4.50; Motor-Travel, $1; Museum Book Store, $217.21; H. C. MacLean Co., 50c.; MacLean Publishing Co., $5; McGraw-Hill Book Co., $11.15; McTavish Bros., $1; Nation Publishing Co., Ltd., $2; National Association of State Libraries, $5.73; National Budget Committee, $2; National Industrial Conference Board, $2.36; Nechako Chronicle, $2; T. Nelson & Sons, $5; New Brunswick Historical Society, $4.50; New York Public Library, $2.95; New York Times Index, $72; New York Times War Volumes, $12.68; News P. & P. Co., Prince Rupert, $6; News Publishing Co., Nelson, $5; M. Nijhoff, $7.80; North China Daily News and Herald, $19.19; Observer P. & P. Co., Ltd., $2; T. P. O'Farrell, $75; Omineca Herald, $2; Ontario Historical Society, $16; Otago Daily Times, $6.01; Ottawa Newspaper Subscription Bureau, $2.70; Oxford Univer-

Carried forward ..... $ 11,010 00 $ 96,651 12

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
210.	PROVINCIAL LIBRARY AND ARCHIVES—*Continued.*		
	Brought forward	$ 11,010 00	$ 96,651 12
	Expenses—*Continued.*		
	Office Supplies, Subscriptions, etc.—*Continued.*		
	sity Press, $18.07; Pacific Review, $5.40; Patriot Publishing Co., $2.75; Penticton Herald, $2.50; Playground & Recreation Association, $1.80; Poor's Publishing Co., $49.84; Port Alberni News P. & P. Co., Ltd., $2; Portland Canal News, $5; postage, $143.36; H. I. Priestley, $3.60; E. G. Prior & Co., Ltd., $5.30; Public Works Department, $44; Reliable Messenger & Delivery Co., $3.25; Reliable Transfer Co., $59.98; Remington Typewriter Co., Ltd., $99.20; Renouf Publishing Co., $2.35; Resources Publishing Co., $2; Revelstoke Review Publishing Co., $2.50; R. B. Roberts, $6; L. Rosenthal, $19.38; Rossland Saturday Night Miner, $2.50; Royal Historical Society, $4.56; R. A. Rumball, $3; Russell Sage Foundation, $4.92; Sales, Ltd., $116.80; Saskatoon Daily Star, $12; F. Schwarze, $7.50; C. H. Smith & Co., $96.25; Smith, Davidson & Wright, Ltd., $1; Societe de Geographie de Quebec, $4; Society for Nautical Research, $4.88; H. Sotheran & Co., $72.84; The Standard, Montreal, $5; The Standard, Ltd., St. John, $4; Stevens & Sons, Ltd., $9.91; H. Stevens, Son & Stiles, $22.26; E. Stock, $19.57; Summerland Review, $4.50; Sun Publishing Co., Ltd., $1; Sweet & Maxwell, Ltd., $31.43; Syms-York Co., $9; Telegraph Printing Co., $1; R. W. L. Tibbits, $2; Times P. & P. Co., Ltd., $129.50; G. Todd, $3.78; Trio Photo Co., $2; Trustees of the British Museum, $11.51; Turner, Beeton & Co., Ltd., $28; Union Club, Victoria, $50; United Publishers of Canada, Ltd., $28.50; University of Chicago Press, $7.72; Vancouver Daily Province, $24.80; Vancouver Daily Sun, $15; Victoria Book & Stationery Co., Ltd., $57.60; Victorian Government Statist, 74c.; Walker Press. $3; Walton & Co., $4.42; E. M. B. Warren, $6; Washington University State Historical Society, $2.33; Weekly Gazette, $1.50; Weiler Bros., $9.60; Western Idea, Ltd., $1.50; J. Wiley & Sons, $4.57; A. Wilson, $3.33; F. Wilson, $1.36; H. W. Wilson Co., $190.26; Wilson & Lafleur, Ltd., $30; W. G. Winterburn, $43.89; The World, Ltd., $10.50; Wrigley Directories, Ltd., $191	9,717 63	
		$ 20,727 63	
	By cash	95	
	Total expenditure, Provincial Library and Archives		20,726 68
211.	"PUBLIC LIBRARIES ACT."		
	Salaries ($2,540):		
	Superintendent ..... H. Killam	$ 1,740 00	
	Assistant ..... P. C. Knowles	800 00	
		$ 2,540 00	
	Expenses ($5,616.06):		
	Office Supplies, etc.:		
	King's Printer, $236.57; postage, $117.36	353 93	
	Books, etc.:		
	T. Allen, $241.21; American Library Association, $8.85; Blackie & Son, Ltd., $19.45; R. R. Bowker & Co., $2.90; A. L. Burt Co., $111.09; J. M. Dent & Son, Ltd., $83.04; Education Department (Free Text-book Branch), $6; Grosset & Dunlap, $96.49; T. N. Hibben & Co., $33.80; Hodder & Stoughton, $33.77; H. R. Huntting Co., $648.12; Lemon-Gonnason Co., Ltd., $195.20; H. O. Litchfield, $7.20; Macmillan Co. of Canada, Ltd., $487.51; Musson Book Co., $96.13; McClelland & Stewart,		
	Carried forward	$ 2,893 93	$ 117,377 80

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
211.	"PUBLIC LIBRARIES ACT"—*Continued.*		
	Brought forward	$ 2,893 93	$ 117,377 80
	Expenses—*Continued.*		
	Books, etc.—*Continued.* $132.49; A. C. McClurg & Co., $400.98; G. J. McLeod, Ltd., $131.93; National Child Welfare Association, $10; T. Nelson & Sons, $62.96; Oxford University Press, $220.47; H. Prenter, $4.95; Public Libraries, $4.10; Ryerson Press, $344.20; Simpkin, Marshall, Hamilton, Kent & Co., Ltd., $203.83; Standard Book Co., $50.94; Victoria Book & Stationery Co., Ltd., $92.44; Victoria Public Library, $76.26; H. W. Wilson Co., $7; J. C. Winston Co., $62.85; Wrigley Directories, Ltd., $10	3,886 16	
	Freight: C. E. Braden, $3.50; L. P. Cadona, $8.42; Canadian Express Co., $2.40; C.P.R. Co., $7.65; Dominion Express Co., $49.46; E. & N. Railway Co., $192.29; Reliable Transfer Co., $597.14..	860 86	
	Travelling Expenses: M. B. Jackson, $18; H. Killam, $418.42; H. G. Stewart, $14..	450 42	
	Incidentals and Contingencies: American Library Association, $5.83; B.C. Telephone Co., Ltd., $33.50; Carter Electric Co., Ltd., $10; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; League of Library Commissions, $5.71; Public Works Department, $8.40..	64 69	
	Total expenditure, "Public Libraries Act"		8,156 06
212.	PROVINCIAL MUSEUM.		
	Salaries ($7,864):		
	Director .....F. Kermode	$ 2,400 00	
	Recorder .....W. V. Redfern	900 00	
	Assistant Biologist .....W. R. Carter	1,540 00	
	Attendants: E. A. Cooke .....$1,357 00 R. W. Park $1,249 00	2,606 00	
	Temporary Assistance: J. M. Bella .....$ 95 00 J. Naysmith .....$ 9 00; E. H. Blackmore ....*275 00 M. Rourke ..... 30 00; C. Davies 9 00	418 00	
	(* *See* Vote 201 for November salary, $25.)	$ 7,864 00	
	Expenses ($876.06): Office Supplies, etc.: B.C. Telephone Co., Ltd., $90; King's Printer, $458.18; Lands Department, 75c.; postage, $41.18; F. A. Rydberg, $6.44	596 55	
	Incidentals and Contingencies: R. W. Babbage, $21; B.A. Paint Co., Ltd., $5.73; Dominion Express Co., $19.55; T. U. Durand, $3.50; E. Fleming, $10; F. Kermode, $25.50; W. McKay, $10; J. Pendray & Sons, Ltd., $10; J. Phillips, $30.54; Reliable Transfer Co., 50c.; D. Sellick, $30.54; Times P. & P. Co., Ltd., $16.83; Turner, Beeton & Co., Ltd., $12.23; United Typewriter Co., $12; Weiler Bros., Ltd., $71.59	279 51	
	Total expenditure, Provincial Museum		8,740 06
	MENTAL HOSPITALS.		
213.	NEW WESTMINSTER.		
	Salaries ($86,703.61): Medical Superintendents: C. E. Doherty (5 mos.) ...$1,550 00 H. C. Steeves (7 mos.) ..$1,925 00	$ 3,475 00	
	Assistant Medical Supt. ....H. C. Steeves (5 mos.)	1,125 00	
	Carried forward	$ 4,600 00	$ 134,273 92

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	MENTAL HOSPITALS—*Continued.*		
213.	NEW WESTMINSTER—*Continued.*		
	Brought forward	$ 4,600 00	$ 134,273 92
	Salaries—*Continued.*		
	Assistant Physicians:		
	D. W. McKay..$1,491.61 G. C. Paine....$450 00	1,941 61	
	Receiving Clerk .....T. H. Cambridge	1,683 96	
	Analyst .....L. Sheppard	960 00	
	Clinical Clerk and Stenographer .....F. Gillard	1,320 00	
	Stenographer .....V. Stead	780 00	
	Sundry employees	75,418 04	
		$ 86,703 61	
	Expenses ($136,253.43):		
	Office Supplies, etc.:		
	Albion Motor Express, $2.50; American Medical Association, $5.25; B.C. Telephone Co., Ltd., $586.12; Burr Office Supplies, $5; Canadian Bank of Commerce, $56.10; C.P.R. Co., $33.02; Colonist P. & P. Co., Ltd., $12; Columbian Co., Ltd., $26; Dominion Express Co., $11.65; Dominion of Canada Guarantee & Accident Insurance Co., $4.38; G.N.W. Telegraph Co., $65.57; Journal of Nervous & Mental Disease, $8; King's Printer, $654.99; J. B. Lippincott Co., $32.08; Macmillan Co. of Canada, Ltd., $4.50; Medico-Legal Journal, $6.90; Modern Hospital Publishing Co., $3.32; H. Morey & Co., $30.40; Office Specialty Manufacturing Co., Ltd., $7.90; postage, $288; Standard Publishing Co., $1.11; United Typewriter Co., Ltd., $18.06; Vancouver Daily Province, $36; Vancouver Daily Sun, $22.50; World, Ltd., $18	1,939 35	
	Travelling Expenses:		
	J. Booth, $3.70; M. Bradley, 80c.; T. H. Cambridge, $46; A. E. Cooter, $22.50; A. Dale, $4.75; G. Farrant, $8; F. J. Fish, $1.35; E. Fitzgerald, $15.95; R. T. Hall, 35c.; B. Jones, 60c.; G. S. Macgowan, $4.70; C. A. Monteith, $48.81; T. W. McAllister, $2.50; J. McMillan, 35c.; H. Northcott, 70c.; W. Rourke, $4.75; H. C. Steeves, $95.40; E. Swarbrick, 95c.; W. J. Willows, $28	290 16	
	Fuel, Light, and Water:		
	B.C.E.R. Co., Ltd., $177.56; Chapman's Motor Garage, $3; City of New Westminster, $4,955.87; Gilley Bros., Ltd., $1,116.18; Hume & Rumble, $80; J. Mayers, $15,258.03; C. Moulton, $15.73; New Westminster Gas Co., $868.15; T. J. Trapp & Co., Ltd., $12.80	22,487 32	
	Maintenance and Repairs of Buildings, etc.:		
	Albion Motor Express, 75c.; Anderson & Lusby, $859.67; Annandale Supply Co., $517.50; B.C. Barber Supply Ltd., $102; B. & K. Milling Co., Ltd., $10; J. Brand & Co., $93; B.C.E.R. Co., Ltd., $1.35; S. Brock, Ltd., $34.80; J. Brookes Woodworking Co., Ltd., $34.54; Brunette Saw Mill Co., Ltd., $487.04; B.C. Brush Works, Ltd., $121.54; C.P.R. Co., $32.56; Canadian Pipe Co., Ltd., $32.20; Chapman's Motor Cartage, $8; City of New Westminster, $49.40; Cope & Son, Ltd., $59.20; Crane, Ltd., $86.82; Crescent Paint & Manufacturing Co., $142.33; Cunningham Hardware Co., $57.72; Collector of Customs, $5.49;		
	Carried forward	$111,420 44	$ 134,273 92

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	MENTAL HOSPITALS—*Continued.*		
213.	NEW WESTMINSTER—*Continued.*		
	Brought forward	$111,420 44	$ 134,273 92
	Expenses—*Continued.*		
	Maintenance and Repairs of Buildings, etc.—*Continued.*		
	Dominion Express Co., $1.30; Dominion Rubber System (Pacific), Ltd., $848.68; J. Gibbons, $20.84; Gilley Bros., $912.30; G.N. Railway Line, $14.57; G.N.W. Telegraph Co., 38c.; Gutta Percha & Rubber, Ltd., $397.56; Hamilton Stove & Heater Co., Ltd., $11.18; Hargreaves, Ltd., $25.76; Heaps Engineering Co., Ltd., $90.90; J. F. Henderson, $9; H. P. Hudson, $73.71; Hunter-Henderson Paint Co., Ltd., $208.68; Hyslop Hardware Co., $177.95; Imperial Welding Co., 50c.; King's Printer, $3.20; H. T. Kirk, $441.15; Laminated Materials Co., $1.28; Marshall-Wells Co., Ltd., $1.10; C. Moulton, $69.97; McClary Manufacturing Co., $27.02; J. P. McMurphy, $20.40; W. N. O'Neil Co., Ltd., 65c.; Robertson-Godson Co., $115.81; Royal City Glass Co., $8.25; A. Saniger, $438.96; T. J. Trapp & Co., Ltd., $1,443.19; Underfeed Stoker Co., Ltd., $156; Vancouver Wood Pipe & Tank Co., Ltd., $633.55; Webb & Gifford, $128.96; Westminster Iron Works, $44.15; pay-list, labour, $253.74	9,316 60	
	Furniture and Fixtures:		
	Anderson & Lusby, $103.31; S. Brock, Ltd., $475; Buscombe Importing Co., Ltd., $876.32; C.P.R. Co., $99.07; Cassidy's, Ltd., $342.20; Collector of Customs, $33; Hudson's Bay Co., $312.75; H. T. Kirk, $53.73; Merchants, Ltd., $8,335.82; H. Morey & Co., $16.60; C. Moulton, $7.25; Office Specialty Manufacturing Co., Ltd., $60.69; Reliable Furniture Co., $55.40; Simmons, Ltd., $144.06; Singer Sewing Machine Co., $78.50; T. J. Trapp & Co., $68.05; Westminster Iron Works, $21	11,082 75	
	Provisions:		
	Annandale Supply Co., $26,900.48; Belyea & Co., Ltd., $127.50; B. & K. Milling Co., Ltd., $4,305; P. Burns & Co., Ltd., $10,819.56; C.P.R. Co., $72; City Dairy Co., $137.50; A. E. Farey, $6; Lake of the Woods Milling Co., Ltd., $3,750; M. Monk & Co., $2,797.25; J. Mort, $20; Vancouver Milling & Grain Co., Ltd., $1,530; Westminster Ice & Creamery, Ltd., $263.25	50,728 54	
	Uniforms and Clothing:		
	American Railway Express Co., 10c.; Anderson & Lusby, $4.65; Belding-Paul-Corticelli, Ltd., $336.99; Burr Office Supplies Co., $3; Chapman's Motor Cartage, $13.25; Dominion Express Co., $9.15; M. Fisher, Sons & Co., $37.05; T. E. Gahan, $14; Gault Bros., Ltd., $1,104.49; G.N. Railway Line, $70.28; Hooper & Humphries, $7,834.49; Johnston's Big Shoe House, Ltd., $156; L. Kellock, $5; E. Lipsett, $78.74; Merchants, Ltd., $3,402.23; Muirhead & Branston, $17.11; A. R. McCallum, $1,615.18; Oxford Manufacturing Co., Ltd., $5,135.45; Singer Sewing Machine Co., $31.58; T. H. Smith Co., Ltd., $45.60; Storey & Campbell, $2,173.19; Vancouver Hollow Grinding Co., $3.85; Westminster Motor Express, 75c.	22,092 13	
	Carried forward	$204,640 46	$ 134,273 92

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	MENTAL HOSPITALS—*Continued.*		
213.	NEW WESTMINSTER—*Continued.*		
	Brought forward	$204,640 46	$ 134,273 92
	Expenses—*Continued.*		
	Medical and Surgical Supplies: American Rly. Express Co., $2.45; N. Anderson, 60c.; R. W. Babbage, $28.96; Basque Chemical Production Co., Ltd., $17.50; Belyea & Co., 50c.; Blue Funnel Motor Line Co., 75c.; B.C. Government Vendor's Liquor Store, $913.75; B.C. Stevens Co., Ltd., $1,012.94; Canadian Refiners, Ltd., $27.78; Chapman's Motor Cartage, $32; Chloride of Silver Dry Cell Battery Co., $5.46; D. S. Curtis & Co., $132; Digestive Ferments Co., $3.26; Gilmour Bros. & Co., $80; G.N. Railway Line, $1.75; F. T. Hill, $145.55; Ingram & Bell, Ltd., $26.91; Meinecke & Co., $148.86; National Drug & Chemical Co. of Canada, $702.29; Parke, Davis & Co., $170.14; Richardson Dental Laboratory, $38.45; H. Ryall, $61.15; Temple-Pattison Co., Ltd., $52.25; J. A. Tepoorten, $18.09; West Disinfecting Co., $7.58	3,630 97	
	Examinations, Committals, and Transportation: G. H. Adam, $88.25; W. S. Ackroyd, $133.95; T. V. Agnew, $49; A. Arden, $92; W. Armstrong, $54.50; L. Ashworth, $10.55; E. O. Aves, $52.25; J. Banham, $18.40; C. G. Barber, $264.20; R. A. Beavan, $147; S. E. Beech, $5; G. Bell, $2; J. M. Bella, $62.60; R. Benke, $27.60; H. Bishop, $4.60; A. T. Blower, $1; M. C. Bowman, $8; W. Boyd, $140; Bonnell, Garner & Asselstine, $40; J. F. Brady, $94; L. Broe, $15; F. G. Brown, $36.75; H. L. Bryce, $5; E. E. Burr, $7; Burris, Archibald & Burris, $60; J. P. Cade, $5; J. Callander, $32.30; C.N. Railway, $64.35; C.P.R., $373.33; J. Carling, $19.50; P. Carr, $42; J. S. Carruthers, $10; D. F. Carswell, $25; G. A. Carter, $58.10; Central Garage, $1; G. A. Cheeseman, $10; J. Christie, $15; City Auto Delivery, $1.50; S. Cline, $1.50; J. S. Clute, $2.50; M. J. Condon, $273.75; A. W. Collins, $568.20; D. Corsan, $43; W. Cross, $1.38; G. F. Curtis, $17.50; A. Dale, $219.34; H. L. Edmonds, $40; F. N. Emmott, $53.20; C. E. Evans, $7.45; C. Ewart, $10; P. Ewart, $20; M. Ewing, $3; A. Fairbairn, $35.90; C. S. Finlaison, $39; A. E. Farey, $103.75; E. Gillard, 35c.; M. Gillingham, $5; W. E. Gomm, $5; M. Gorman, $76.40; E. C. Graham, $83.10; G.T.P. Coast S.S. Co., $26.30; A. W. Gray, $5; G.N.W. Telegraph Co., $1; Green & Fort, $10; G. H. Greenwood, $131.45; J. H. Hamilton, $10; C. H. Hankinson, $10; J. S. Hartridge, 18c.; D. A. Hazelton, $22.75; C. T. Hilton, $5; W. T. Hoyes, $15; Inland Express Co., $143; R. W. Irving, $5; W. F. Islip, $33.75; Johnson Bros., $35; J. F. Johnston, $43.60; B. and R. Jones, $36.75; F. Jones, $1; T. J. Kearney & Co., $10; W. D. Keith, $5; D. E. Kelly, $3; J. Kelly, $115.45; Kettle Valley Railway Co., $40.80; W. Kier, $40.40; Knox & Campbell, $5; Lafontaine Bros., $1.50; W. Lyne, $14; E. J. Lyon, $14; H. H. Mansell, $518.95; F. Markland, 85c.; S. Marshall, $36; H. Montgomery, $6; J. E. Montgomery, $5; A. D. Morgan, $18; A. W. Morgan, $5; W. G. Morris, $5; G. C. Mortimer, $11.80;		
	Carried forward	$208,271 43	$ 134,273 92

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	MENTAL HOSPITALS—*Continued.*		
213.	NEW WESTMINSTER—*Continued.*		
	Brought forward	$208,271 43	$ 134,273 92
	Expenses—*Continued.*		
	Examinations, Committals, and Transportation—*Continued.*		
	T. Mowbray, $1.72; H. H. Murphy, $10; R. G. MacBeath, 25c.; D. M. McCaffrey, $20; C. McCarty, $33; J. J. McConnell, $49.65; A. McClughan, $1; D. A. McDonald, $8.30; H. R. McDonald, $9; H. J. McDougall, $3.15; E. H. McEwen, $80; M. McEwen, $5; S. C. McEwen, $5; D. W. McKay, $2.75; J. G. McKay, $90; H. McLaren, $4.70; H. McLean, $67.90; F. McLeod, $49; S. J. McNally, $59.85; N. M. McNeil, $10; A. L. McQuarrie, $5; Nelson Transfer Co., Ltd., $1.50; C. E. Newcombe, $102.75; Northwestern Telegraph Co., $1.85; T. O'Hagan, $5; R. Owens, $9.30; R. E. Page, $5; W. Park, $8; A. M. Pearman, $80.25; M. Penny, $1.15; R. P. Ponder, $39.70; Powell River Co., Ltd., $3; W. L. Ritchie, $10; J. N. Rogers, $7.55; W. H. Rounds, $63; J. Russell, $21.20; W. Saunders, $6; J. P. Scarlett, $53.50; L. Schulz, $99; W. J. Service, $117; W. F. Shaw, $10; W. V. Shepherd, $15.20; G. Shipman, $7.25; F. Smith, $4; J. M. Smith, $44.95; W. Spiller, $65.60; G. Stead, $15.50; A. T. Stephenson, $8.10; A. Strang, $19.75; A. J. Stuart, $5; A. A. Sutherland, $5; E. M. Sutherland, $35; W. Sutherland, $15; R. J. Sutherland, $69.95; W. Swarbrick, $1.31; J. N. Taylor, $5; E. Thompson, $21; M. Tyner, $17.90; T. van Dyke, $128.75; Vernon Auto Stand, $10; M. S. Wade, $40; Walker & Green, $15; J. Walsh, $209.95; H. N. Watson, $5; G. M. Watt, $7.50; R. Webster, $326.10; J. Williams, $277.05; H. N. Wood, $24.65; J. H. Wright, $5	7,640 11	
	Incidentals and Contingencies:		
	Albion Motor Express, $2.25; Anderson & Lusby, $54.60; Bearing Supply House, Ltd., $11.43; Beaver Soap Co., Ltd., $59.50; Begg Motor Co., Ltd., $217.45; E. D. Bellew, $1; A. H. Blackburn, $20.50; Blue Funnel Motor Line, Ltd., $31.50; S. Bowell & Son, $278; B. & K. Milling Co., Ltd., $1,377.55; M. Bradley, $15; W. Briggs, $1; B.C.E.R. Co., $5.71; S. Brock, Ltd., $279.93; Bryson & Sons, $201.10; C.P.R. Co., $113.65; Canadian Photo Co., $36.55; Chapman's Motor Cartage, $9.65; A. Clausen, $2.50; City of New Westminster, $5; Columbian Co., Ltd., $9.60; Crane, Ltd., $3.79; Collector of Customs, $1.75; K. Currie, $85; Dominion of Canada Guarantee & Accident Insurance Co., $5.30; Dominion Express Co., $3; Dominion Rubber System (Pacific), Ltd., $379.55; W. E. Fales, $100; D. Galloway, $3; Gault Bros., Ltd., $8.50; Gernaey Tire Co., $76.86; J. Goard, $17; L. Grier, $5; J. Hargreaves, $175.56; Haskins & Elliott, $11.50; F. W. B. Haworth, $43.29; G. H. Hewitt Co., Ltd., $30.59; O. Holmgren, $15; Imperial Oil, Ltd., $1,145.90; J. P. Johndro, $22.50; J. J. Johnston, $43.75; B. Jones, 75c.; J. Kelly, $1; H. T. Kirk, $81; licence, $10; E. Lipsett, $153.19; F. J. Lynch, $16; H. D. Mackness, $132; Marshall-Wells Co., Ltd., $4.87; C. A. Monteith,		
	Carried forward	$215,911 54	$ 134,273 92

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	MENTAL HOSPITALS—*Continued.*		
213.	NEW WESTMINSTER—*Continued.*		
	Brought forward	$215,911 54	$ 134,273 92
	Expenses—*Continued.*		
	Incidentals and Contingencies—*Continued.*		
	$1.50; H. Morey & Co., $83.03; D. Murchie & Son, $142; W. J. McAgy, $1; McAllister Spring Co., Ltd., $6.50; M. MacDonald, $12; McColl Bros., Ltd., $162.87; B. O'Reilly, $1; T. Ovens, $193.68; J. Potter, $15; Richardson Dental Laboratory, $3; Ridley-Kennedy, Ltd., 70c.; Ritchie Bros. & Co., $260.05; H. Robertson, $5; Royal Columbian Hospital, $15; G. C. Salter, $105; M. Schmidt, $1; J. Servell, $6; Singer Sewing Machine Co., $2; F. P. Smith, $11; F. Smith, $6; Speck & Robertson, $15.28; Stewart Photo Supply Co., $78.89; Storey & Campbell, $1.60; Temple-Pattison Co., Ltd., $6.50; J. H. Todd, $8.70; T. J. Trapp & Co., Ltd., $212.32; Tupper & Steele, Ltd., $8.25; Union Steamship Co. of B.C., Ltd., 15c.; United Grain Growers, Ltd., $50.60; Vancouver Daily Province, $20.25; Vancouver Daily Sun, $36.45; Vancouver Milling & Grain Co., Ltd., $28.75; West Disinfecting Co., $6.31; Westminster Brewery, Ltd., $219; G. T. Wilson, $10	7,045 50	
	Total expenditure, Mental Hospital, New Westminster ..		$222,957 04
214.	ESSONDALE.		
	Salaries ($110,370.33):		
	Assistant Medical Supt. ....A. L. Crease	$ 2,700 00	
	Assistant Physician .....E. J. Ryan	2,100 00	
	House Physician .....T. W. McAllister	1,800 00	
	Bursar .....G. S. Macgowan	2,520 00	
	Chief Clerk .....C. Fletcher	1,419 96	
	Book-keeper .....M. H. McCabe	1,392 00	
	Clinical Clerk and Stenographer .....F. J. Fish	1,332 00	
	Stenographers:		
	G. W. Oakley ..$960 00 I. H. Wedge ..$780 00	1,740 00	
	Sundry employees	95,366 37	
		$110,370 33	
	Expenses ($162.617.40):		
	Office Supplies, etc.:		
	American Public Health Association, $1.25; Baird & Tatlock, $47.71; B.C. Telephone Co., Ltd., $1,009; B.C. Veteran's Weekly, $2.50; Burr Office Supplies, $51.35; C.P.R. Co., $62.58; Columbian Co., Ltd., $41.70; Collector of Customs, 85c.; F. A. Davis Co., $29.30; Dodd, Mead & Co., $7.04; Dominion Express Co., $20.30; F. Brown Co., Ltd., $65.40; G.N.W. Telegraph Co., $10.98; G. H. Hewitt Co., Ltd., $2.26; Hospital World, $3; E. W. Jones, $13.75; King's Printer, $1,175.19; Lea & Febiger, $7.40; J. B. Lippincott Co., $50; MacMillan Co., Ltd., $15; Massachusetts General Hospital, $11.93; Modern Hospital Publishing Co., $3.50; Modern Office, Ltd., $266; H. Morey & Co., $27.60; postage, $315; A. W. Shaw Co., $3.50; Standard Publishing Co., $1.11; Temple-Pattison Co., Ltd., $15.69; United Typewriter Co., Ltd., $160.50; Vancouver Province, $4; Vancouver Sun, $5; Western Specialty, Ltd., $14.84	3,445 13	
	Carried forward	$113,815 56	$222,957 04 $ 134,273 92

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	MENTAL HOSPITALS—*Continued.*			
214.	ESSONDALE—*Continued.*			
	Brought forward	$113,815 56	$222,957 04	$ 134,273 92
	Expenses—*Continued.*			
	Travelling Expenses:			
	W. F. Beggs, $13.30; L. J. Bell, $8.65; J. Booth, 60c.; C.P.R. Co., $89.50; A. E. Cooter, $3.50; E. English, $2.75; F. J. Fish, 35c.; W. Greenwood, $28.95; H. W. King, $37.75; licence, $25.80; H. Lonsdale, 50c.; T. Lynch, $1.15; G. S. Macgowan, $201.96; J. L. Malcolm, $143.65; F. D. Markland, $1.60; S. B. Martin, $2; R. Monteith, $3.70; W. Moore, $3; T. Mowbray, $3.72; H. McCabe, $125.65; O. S. McKain, 50c.; A. Mackenzie, $3.25; A. D. I. Mustart, $7; G. W. Oakley, $176.25; E. Pope, $5.75; J. Porteous, 35c.; J. B. Pumphery, $159.65; E. J. Ryan, $1.05; L. Sheppard, $21.65; T. Theroux, $1.05; I. H. Wedge, $177.10; J. W. Willows, $11.50; J. Wilby, $1.46	1,264 64		
	Fuel, Light, and Water:			
	B.C. Electric Co., Ltd., $2,422.25; Collector of Customs, $5.65; Evans, Coleman & Evans, Ltd., $359.14; Imperial Oil, Ltd., $140; J. Mayers, $24,130.79; C. Moulton, $24.38; New Westminster Gas Co., $4,577.08; Port Coquitlam Transfer Co., $16.75	31,676 04		
	Maintenance and Repairs of Buildings, etc.:			
	Albion Motor Express, $1.85; American Railway Express Co., 10c.; Anderson & Lusby, $2,260.09; Bourrett-Kirkwood Co., $12.29; Brackman-Ker Milling Co., Ltd., $6.70; Bristol Co., $18.80; B.C. Barber Supply, Ltd., $72.45; B.C. Brush Works, Ltd., $161.35; B.C.E.R. Co., $31.98; B.C. Telephone Co., $49.13; B. Brookes, $8; Brookes Woodworking Co., $451.47; Brunette Saw Mill Co., Ltd., $383.56; Canadian General Electric Co., Ltd., $10.11; Canadian Johns-Manville Co., $18.35; C.P.R. Co., $35.15; Canadian Western Lumber Co., $37.23; Chapman's Motor Cartage, $9; W. R. Coulter, 25c.; Crane, Ltd., $87.42; Crescent Paint Co., $147.23; Cunningham Hardware Co., $159.10; F. Darling & Co., Ltd., $52.20; S. J. Davison, $5; Dominion Express Co., $2.25; Dominion Rubber System, $9.03; Evans, Coleman & Evans, Ltd., $50.11; Fleck Bros., Ltd., $64.23; Garlock Packing Co., $20.09; Gilley Bros., $37.25; Gutta Percha & Rubber, Ltd., $103.16; Hamilton Stove Co., $4.97; R. Hoffmeister, $11.67; E. B. Horsman & Son, $33.33; Hume & Rumble, $19.90; Hunter-Henderson Paint Co., $1,786.13; Hyslop Hardware Co., $303.24; James & McClughan, $5.19; W. R. Jaynes, $42.05; H. T. Kirk, $17.44; C. Moulton, $354.86; McClary Manufacturing Co., $33.51; McLennan, McFeely & Co., $241.94; J. P. McMurphy, $365.29; New Westminster Foundry Co., $5; New Westminster Junk Store, $2.80; Northern Electric Co., Ltd., $24.59; W. N. O'Neil Co., Ltd., $3,115.40; T. Ovens, $18; W. J. Pendray & Sons, $77.21; A. Ramsay & Son Co., $11.90; Robertson-Godson Co., $198.23; Royal Crown Soaps, Ltd., $23.50; A. Saniger, $600; Simmons, Ltd., $12.50; A. Smith, 75c.; J. F. Smith Co., Ltd., $7.40; C. C. Snowdon, $87.55; Speck &			
	Carried forward	$146,756 24	$222,957 04	$ 134,273 92

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	MENTAL HOSPITALS—*Continued.*			
214.	ESSONDALE—*Continued.*			
	Brought forward	$146,756 24	$222,957 04	$ 134,273 92
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, etc.—*Continued.* Robertson, $2.90; Spring & Sibley, $405.82; Tire Service Shop, 50c.; J. H. Todd, 15c.; T. J. Trapp & Co., Ltd., $748.22; Under Feed Stoker Co., $51.09; Webb & Gifford, $74.66; C. A. Welsh, Ltd., $1,995.05; West Disinfecting Co., $83.29; Westminster Iron Works, $122.29; Westminster Junk Co., $17.40	15,210 65		
	Furniture and Fixtures: Almonds, Ltd., 75c.; Anderson & Lusby, $180.85; J. Brand & Co., $13.50; B.C.E.R. Co., $82.50; Brunette Saw Mill Co., $68.24; Bryson & Sons, $26.50; C.P.R. Co., $26.87; Cassidy's Ltd., $274.40; Hudson's Bay Co., $5; H. Justason, $60; H. T. Kirk, $24; Merchants, Ltd., $8,238.52; Metal Craft Co., Ltd., $102.26; J. G. Pendrith Co., $49.60; J. Pringle, 25c.; Reid Bros., Ltd., $65; Shelly Bros., $200; Simmons, Ltd., $764.35; Soldiers' Civil Re-establishment, $864.87; T. J. Trapp & Co., Ltd., $483.64; Vancouver Scale & Butchers' Supply Co., $287.85; Weiler Bros., Ltd., $62.50	11,881 45		
	Provisions: Belyea & Co., Ltd., $34; Brackman-Ker Milling Co., $236.50; B.C.E.R. Co., 50c.; B.C. Government Vendor's Liquor Store, $23.40; P. Burns & Co., $20,036.31; City Dairy Co., $38.50; V. Girace & Co., 80c.; Hedley Shaw Milling Co., $4,230; L. F. Hornby, $1,386; Lake of Woods Milling Co., $4,095; M. Monk & Co., $3,892.43; J. Pringle, 25c.; Vancouver Milling Co., $5.835; Vancouver Tripe Dressing Co., $5; C. A. Welsh, Ltd., $46,691.35	86,505 04		
	Uniforms and Clothing: B.C.E.R. Co., $1.70; J. E. Brown & Co., $120; W. S. Collister & Co., 90c.; Gutta Percha & Rubber, Ltd., $312.53; Johnston's Shoe Store, $2,604.41; J. A. Lainey, 75c.; The Merchants, Ltd., $10,074.57; M. J. Phillips, $1,025.50; Reid & McDonald, $910; O. Swanson, $3.30	15,053 66		
	Medical and Surgical Supplies: R. W. Babbage, $12.25; B.C. Assay & Chemical Co., $2.40; B.C. Dental Supply Co., $14.20; B.C.E.R. Co., $1; B.C. Government Vendor's Liquor Store, $144.75; B.C. Stevens Co., Ltd., $1,191.97; Canadian Refiners, Ltd., $12.60; Chapman's Motor Co., $6.75; W. R. Coulter, $1.25; E. R. Davis, $1.50; Dominion Express Co., $5.45; J. O. Ellis, 50c.; F. T. Hill, $194.90; T. H. Issacson, 25c.; Law, the Druggist, $6.75; National Drug Co., $546.25; Parke, Davis & Co., $150.11; J. Pringle, 25c.; Richardson Dental Laboratory, $30.23; H. Ryall, $31.80; Temple-Pattison Co., Ltd., $95.23; J. A. Tepoorten, Ltd., $16.58; Universal Trading Co., $11.25; W. L. Wood, $55.42	2,533.64		
	Examinations, Committals, and Transportation: H. Banhan, $2.25; A. G. Beaton, 30c.; J. W. Blackburn, $4.15; F. Boutier, 50c.; F. Boutin, $4.80; A. Campbell, 75c.; C.P.R. Co., $33.50;			
	Carried forward	$277,940 68	$222,957 04	$ 134,273 92

No. of Vote.	SERVICE.	Expended.		
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	MENTAL HOSPITALS—*Continued.*			
214.	ESSONDALE—*Continued.*			
	Brought forward	$277,940 68	$222,957 04	$ 134,273 92
	Expenses—*Continued.*			
	Examinations, Committals, and Transportation—*Continued.*			
	Central Hotel, $3.20; A. Chandler, 35c.; W. R. Coulter, $6; T. Drybrough, $10.80; J. O. Ellis, $1; E. English, $2.90; W. Headridge, $2.90; A. Flannagan, 70c.; P. Hoskins, $3.70; M. J. Hughes, $1.65; T. H. Isaacson, $3.35; R. A. Johnston, 40c.; H. Lonsdale, 70c.; R. Monteith, $2.90; M. MacDonald, 70c.; A. S. MacKam, 50c.; A. MacKenzie, 25c.; G. McNaughton, 50c.; J. McNaughton, $1; C. Oxenbury, $1.80; F. Pollard, $1; J. Pringle, 50c.; L. Sing, $2.55; A. Smith, $7.20; S. Tunnicliffe, $1.05; R. Wilson, Son & Co., $27.50; W. Wilson, $2.10; W. E. Worrall, $2.50	137 95		
	Incidentals and Contingencies:			
	Almond's, Ltd., $3.10; American Railway Express Co., 20c.; Anderson & Lusby, $54.08; Auto Engineering Works, $2.20; Beaver Soap Co., Ltd., $87.07; L. Bell, $9.95; Bennetts' Transfer, 75c.; Bishop & Christie, $1.16; A. H. Blackburn, $6.50; Blue Funnel Motor Line, $5; Bogardus-Wickens, Ltd., $19.34; S. Bowell & Son, $283; J. Brand & Co., $71.60; B.C.E.R. Co., 50c.; B.C. Barber Supply Co., $121.48; S. Brock, Ltd., $206.34; Canadian Ammonia Co., $43.94; C.P.R. Co., $175.56; Canadian Photo Co., $40.80; Chapman's Motor Cartage, $5.50; City Dairy Co., $5.20; R. H. Cliburn, $106.81; Columbian Co., Ltd., $9; W. R. Coulter, 25c.; Crane, Ltd., $5.26; A. Cunningham, $32.50; D. L. Curtis Co., 25c.; Collector of Customs, $55.11; F. Darling & Co., Ltd., $40; S. J. Davison, $2.25; Dom. of Can. Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $11.07; Dominion Rubber System, $75.60; The Fair, $5; W. E. Fales, $319; Fraser Transfer Co., $18; Gernaey Tire Co., $1.25; T. Gifford, $3.75; Gilley Bros., Ltd., $45; Goodyear Tire Co., Ltd., $238.10; R. V. Gould, $5; Gurney Tire Co., 75c.; J. Hargreaves, $86.24; Harrison & Co., $4; G. H. Hewitt Co., Ltd., $5.10; Hudson's Bay Co., $198.99; Hume & Rumble, 35c.; Imperial Oil, Ltd., $596.67; T. H. Isaacson, 25c.; James & McClughan, Ltd., $3.65; C. D. King, $4; H. T. Kirk, $2; Knight-Higman Motors, Ltd., $12.54; licences, $69; F. J. Lynch, $56; G. S. Macgowan, 15c.; Mack International Motor Corporation, $174.06; H. D. Mackness, $19; V. F. Mark, $5; C. H. Matthews, $30; Merchants, Ltd., $16.97; H. Morey & Co., $56.73; T. Mowbray, $1.26; D. Murchie & Son, $261; McAllister Spring Co., Ltd., $4.45; W. M. McCloy & Co., $250.80; McColl Bros., Ltd., $15.73; D. McKenzie, $24.10; D. M. Pound, $2.50; J. Pringle, $4; Richardson Dental Lab., $1.50; Ridley-Kennedy, Ltd., $4.20; Royal City Glass Co., $8; Royal Columbian Hospital, $218.50; E. Rushton, $236.82; H. D. Simmons, $150; J. Sinclair, $5; A. Smith, 25c.; F. P. Smith, $10; F. Smith, $5; C. C. Snowdon, $334.22; G. R. Speck, $1.40; Speck & Robertson,			
	Carried forward	$278,078 63	$222,957 04	$ 134,273 92

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	MENTAL HOSPITALS—*Continued.*			
214.	ESSONDALE—*Continued.*			
	Brought forward	$278,078 63	$222,957 04	$ 134,273 92
	Expenses—*Continued.*			
	Incidentals and Contingencies—*Continued.*			
	$11.79; G. T. Stevens, $2.70; O. Swanson, $19.80; Temple-Pattison Co., Ltd., $4; Times P. & P. Co., Ltd., $8.95; J. H. Todd, $20.30; T. J. Trapp & Co., Ltd., $536.74; Tupper & Steele, Ltd., $36; Vancouver Citizens' Club, $2.90; Vancouver General Hospital, $21.60; Vancouver Province, $18.60; Vancouver Sun, $32.40; F. Vye, $1.25; C. Weir, $6.50; C. A. Welsh, $9.25; R. Wilson, Son & Co., $5; F. W. Woolworth Co., $12.68; gratuities, $101.82	5,851 43		
		$283,930 06		
	By board and lodging supplied to Colony Farm employees $ 10,915 40			
	By cash 26 93	10,942 33		
	Total expenditure, Mental Hospital, Essondale		272,987 73	
215.	COLONY FARM AND NURSERY, ESSONDALE.			
	Salaries ($27,368.02):			
	Farm Supt. (5 mos.) .....P.H. Moore	$ 1,050 00		
	Acting Farm Supt. (7 mos.) .R. Gardner	1,120 00		
	Record Clerk .....T. Weeks	1,152 00		
	Sundry employees	24,046 02		
		$ 27,368 02		
	Expenses ($70,513.53):			
	Office Supplies, etc.:			
	B.C. Telephone Co., Ltd., $248.76; Burr Office Supplies, $1.75; Canadian Co-operative Woolgrowers, $2.03; Canadian Farm, $1.50; C.P.R. Co., $12.77; M. Clemons, $2.53; Columbian Co., Ltd., $2; M. H. Gardner, $4.07; G.N.W. Telegraph Co., $22.01; Holstein-Friesian Association, $4; King's Printer, $75.17; Liverpool Sale & Ped. Co., $3; Macdonald's Sub-agency, $1.75; Market Examiner, $2; H. Morey & Co., $21.90; postage, $30	435 24		
	Travelling Expenses:			
	H. Dorling, $475.56; R. Gardner, $26.20; G. S. Macgowan, $3.80; P. H. Moore, $417.27; W. McVie, $26; A. Webster, $97.35; S. Wickham, $72	1,118 18		
	Fuel, Light, and Water:			
	B.C.E.R. Co., $1,965.84; Corporation of New Westminster, $456.93; Gilley Bros., Ltd., $118.68; C. Moulton, $2.15; C. A. Welsh, Ltd., $3.80	2,547 40		
	Maintenance and Repairs of Buildings, etc.:			
	Anderson & Lusby, $212.45; Battery House, Ltd., $3; B.C. Brush Works, Ltd., $156.87; B.C.E.R. Co., Ltd., $1.47; Brunette Saw Mill Co., Ltd., $659.60; Corporation of New Westminster, $2.75; W. R. Coulter, 25c.; Crane, Ltd., $45.29; Cunningham Hardware Co., $5.25; S. J. Davison, 50c.; DeLaval Co., Ltd., $253.69; Dominion Rubber System, $55.86; M. Dumond, $79.20; Galbraith & Sons (assignee), $44.69; Garlock Packing Co., $12.42; Gurney Foundry Co., Ltd., $32.09; Gutta Percha & Rubber, Ltd., $5.07; Heaps Engineering Co., Ltd., $11.22; Hunter-Henderson Paint Co.,			
	Carried forward	$ 31,468 84	$495,944 77	$ 134,273 92

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	MENTAL HOSPITALS—*Continued.*			
215.	COLONY FARM AND NURSERY, ESSONDALE—*Continued.*			
	Brought forward	$ 31,468 84	$495,944 77	$ 134,273 92
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, etc.—*Continued.* $215.68; Hyslop Hardware Co., $138.93; Imperial Welding Co., 50c.; T. H. Jagger, $90.75; W. R. Jaynes, $2; E. Lipsett, $13.07; Massey-Harris Co., Ltd., $1.80; H. Morey & Co., $12; W. McVie, $16; New Westminster Foundry Co., $5; Robertson-Godson Co., Ltd., $3,981.16; J. F. Smith Co., Ltd., $47.19; Spring & Sibley, $22.40; E. C. Stearns & Co., $3.77; Swift Canadian Co., Ltd., $11.12; T. J. Trapp & Co., Ltd., $174.66; C. A. Welsh, Ltd., $91.04; West Disinfecting Co., $5.25; Williams Machinery Co., $1.30	6,415 29		
	Provisions: Mental Hospital, Essondale, board and lodging for employees	10,915 40		
	Feed for Stock: Brackman-Ker Milling Co., Ltd., $18,549.60; C.P.R. Co., $6; S. Charlton, $1,223; G. Embree, $206.40; L. W. Embree, $1,235.52; R. Erskine, $1,260; R. Gardner, $5; Gilley Bros., Ltd., $32; Great Northern Railway Co., $401.93; Mainland Navigation Co., Ltd., $73.45; Monarch Towing & Trading Co., $50; G. Nisbit, $599.50; Ramsay Bros. & Co., Ltd., $35.98; I. Robinson, $535; E. Sabourin, $304.50; Scott & Peden, $95; T. J. Trapp & Co., Ltd., $101.64; United Grain Growers, Ltd., $6,669.63; Vancouver Milling & Grain Co., Ltd., $1,811.05; Vernon Feed Co., $139.50; C. A. Welsh, Ltd., $19.98; Westminster Brewery, $1,234.80.....	34,589 48		
	Fertilizer and Seed: Brackman-Ker Milling Co., Ltd., $2,200.35; J. Brand & Co., $13.25; B.C.E.R. Co., $1; Dominion Experimental Station, $120; L. F. Hornby, $441; J. M. Steeves, $128.60; A. Unsworth, $153; Victoria Chemical Co., $1,623.85	4,681 05		
	Testing Cows: Albion Motor Express, $1.15; C.P.R. Co., $2.55; Cascade Towing Co., $1.55; DeLaval Co., Ltd., $4.81; G. Hooper, $44.70; C. G. Newlands, $20; Richmond Cow Testing Association, $21.90; C. Rive, $100; G. Searle, $265; Victoria Chemical Co., Ltd., $18.10; D. M. Wilson, $9; R. K. Wood, $335; E. Young, $105	928 76		
	Incidentals and Contingencies: Agricultural Department, $3.31; Anderson & Lusby, $193.60; Bearing Supply House, $7.72; Begg Motor Co., Ltd., $13.60; W. J. Bonavia, $5; J. Brand & Co., $346.95; B.C.E.R. Co., Ltd., $24.67; B. C. Stevens Co., Ltd., $49.27; Brown, Fraser & Co., Ltd., $109.45; Canadian Bank of Commerce, $1; Canadian Co-operative Wool Growers, Ltd., $3.10; Canadian National Live Stock, $3.04; C.P.R. Co., $107.48; Canadian Photo Co., $134.10; Canadian Western Lumber Co., Ltd., $342.18; B. O. Case & Son, $4.65; Chapman's Motor Cartage, $1.75; Cleland-Bell Engraving Co., $7.98; W. A. Clemons, $27.52; Collector of Customs, 65c.; Columbian Co., Ltd., $51.53; Confederation Life Association, $236; Dairy Machinery Co., Ltd.,			
	Carried forward	$ 88,998 82	$495,944 77	$ 134,273 92

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*

MENTAL HOSPITALS—*Continued.*

215. COLONY FARM AND NURSERY, ESSONDALE—*Continued.*

Brought forward	$ 88,998 82	$495,944 77	$ 134,273 92
Expenses—*Continued.*			
Incidentals and Contingencies—*Continued.*			
$2.35; S. J. Davison, $10.35; DeLaval Co., Ltd., $170.85; Dominion of Canada Guarantee & Accident Insurance Co., 53c.; Dominion Express Co., $17.03; M. Dumond, $137.50; Edson Apiaries, $16.25; R. Erskine, $4; Farm and Home, $75; Fraser Transfer Co., $14; Gilley Bros., Ltd., $139; Hartford Fire Insurance Co., $90; J. H. Hellins, $100; Holstein-Friesian Association, $15.88; F. L. Houghton, $95.81; Hyslop Hardware Co., $970.86; Imperial Oil, Ltd., $870.77; Imperial Varnish Co., $7.98; T. H. Jagger, $1,585.35; W. R. Jaynes, $1.50; G. S. Macgowan, $1.16; Mainland Navigation Co., $20; Massey-Harris Co., Ltd., $2.11; Merchants, Ltd., $75.15; L. A. Mitchell, $5; P. H. Moore, $70; E. E. Mott, $6.25; J. Murphy, 20c.; A. McKenzie, $33; National Live Stock Association, 27c.; National Live Stock Record, $10.06; Oregon State Hospital, $69.36; Pacific Tractor Co., $126.14; Parke, Davis & Co., $38.32; W. J. Pendray & Sons, Ltd., $16; Post-Intelligencer Co., $65.52; postage, $15.82; Reliable Transfer Co., $6; J. Renton, $7.70; Rural Publishing Co., Ltd., $42; H. Ryall, $284.75; Shannon Bros., $141; Storey & Campbell, $28.40; Stover Apiaries, $7.50; T. O. Townley, $1; T. J. Trapp & Co., $1,460.60; W. J. Tucker, $2.50; Vancouver Province, $1.85; A. Webster, $27.50; C. A. Welsh, Ltd., $6.30; West Disinfecting Co., $115.16; Westminster Brewery, $117; Westminster Iron Works, $79.55	8,882 73		
Total expenditure, Colony Farm and Nursery, Essondale		97,881 55	

216. MENTAL HOME (SAANICH), COLQUITZ.

Salaries ($16,726.99):			
Supervisor.....G. Farrant	$ 1,440 00		
Visiting Physician.....G. W. Hall	1,200 00		
Sundry employees	14,086 99		
	$ 16,726 99		
Expenses ($32,651.17):			
Office Supplies, etc.:			
B.C. Telephone Co., $121.20; C.P.R. Co., 65c.; King's Printer, $78.14; postage, $25	224 99		
Travelling Expenses:			
W. F. Beggs, $12; Cameron & Calwell, $7.50; G. Farrant, $130.26; Jones & Dale, $35.73	185 49		
Fuel, Light, and Water:			
B.C.E.R. Co., $953.74; Corporation of Saanich, $31.24; Hawkins & Hayward, $56.02; E. B. Marvin & Co., $7.70; W. Walker & Son, $4,668.55	5,717 25		
Maintenance and Repairs of Buildings, etc.:			
Albion Stove Works, $11.76; Arco Co., $87.50; B.A. Paint Co., Ltd., $2.83; Cudahy Packing Co., $21; Dominion Rubber System, $124.46; Drake Hardware Co., Ltd., $103.95; Evans, Coleman & Evans, Ltd., $212.56; W. S. Fraser & Co., Ltd., $83.56; E. Jones, $53.80; Lemon-Gonnason Co.,			
Carried forward	$ 22,854 72	$593,826 32	$ 134,273 92

No. of Vote.	SERVICE.	Expended.		
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	MENTAL HOSPITALS—*Continued.*			
216.	MENTAL HOME (SAANICH), COLQUITZ—*Continued.*			
	Brought forward	$ 22,854 72	$593,826 32	$ 134,273 92
	Expenses—*Continued.*			
	Maintenance and Repairs of Buildings, etc.—*Continued.*			
	Ltd., $115.81; Lofts & Bosustow, $2.40; Martin & Robertson, Ltd., $41.16; E. B. Marvin & Co., $96.07; Mellor Bros., Ltd., $247.86; Melrose Co., Ltd., $35.20; E. G. Prior & Co., Ltd., $331.31; Producers Rock & Gravel Co., $30; Public Works Department, $126.10; A. E. Scaife, $462.10; A. Sheret, $404.39; Smith, Davidson & Wright, $24.75; G. A. Stevens, $70; Taylor-Forbes Co., Ltd., $38.62; Victoria Machinery Depot Co., $1.68; pay-list, labour, $310.88; car fare, sundry persons, $23.56..	3,063 31		
	Furniture and Fixtures:			
	J. Bartholomew, $28; F. Jeune & Bro., Ltd., $26.40; Mitchell Bros., $9.69; Mitchell & Duncan, $29; D. Pallantier, $160; D. Spencer, Ltd., $134.20; Turner, Beeton & Co., Ltd., $223.55; Weiler Bros., Ltd., $95.45; S. West, $37	743 29		
	Provisions:			
	Brown & Cooper, $594.92; P. Burns & Co., Ltd., $5,079.92; Chapman's Motor Cartage, $8.75; A. E. Scaife, $4,668.56; Shelly Bros, Ltd., $3,618.44; F. R. Stewart & Co., Ltd., $360.50; B. Wilson Co., Ltd., $150	14,481 09		
	Uniforms and Clothing:			
	W. F. Beggs, $10.20; Dominion Express Co., $4.90; Dominion Rubber System, $33.08; F. Jeune & Bro., Ltd., $32.59; Johnston's Shoe Store, $427.96; A. McKeown, $18; Old Country Shoe Store, $10.30; Turner, Beeton & Co., Ltd., $1,087.26	1,624 29		
	Medical and Surgical Supplies:			
	B.C. Dental Supply Co., $12.87; B.C. Government Vendor's Liquor Store, $2; Ivel's Pharmacy, $94.45; National Drug & Chemical Co., $84.37; Strains, Ltd., $28; J. L. Thompson, $150	371 69		
	Incidentals and Contingencies:			
	R. Angus, 50c.; B. & K. Milling Co., Ltd., $377.55; Brown's Nurseries, Ltd., $202.50; Cameron & Calwell, $76.50; Cameron Lumber Co., Ltd., $532.03; Canadian Ammonia Co., $28.32; Canadian Explosives, Ltd., $97.25; C.P.R. Co., $9; A. Davis, $2.50; Dominion Express Co., 35c.; Drake Hardware Co., $37.60; W. Duncan, $3.50; Economy Wet Wash Laundry, $592.84; E. & N. Railway Co., $15.87; Evans, Coleman & Evans, Ltd., $33.10; G. Farrant (sundry accounts), $157.75; Fletcher Bros., $643.62; Forrester's Paint Store, $4.50; W. S. Fraser & Co., Ltd., $125.70; G. W. Fuggle, $4.50; Great Western Junk Co., $6; R. Hamilton, $65.50; Hawkins & Hayward, $101.50; A. E. Hull, $30; R. A. Jones, $7.40; Lemon-Gonnason Co., $216.18; O. Lloyd, $95; E. B. Marvin & Co., $49.65; Mellor Bros., Ltd., $28.14; J. P. Merriman, $2.50; A. McKeown, $30.07; National Drug Co., $19.11; National Motor Co., Ltd., $55.56; F. G. Orr, $9.75; Pacific Club, $6; Peden Bros., $10; Perkins Electric Co., $375; G. Powell & Sons, $72.25; E. G. Prior & Co., Ltd., $117.48; Producers			
	Carried forward	$ 43,138 39	$593,826 32	$ 134,273 92

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	MENTAL HOSPITALS—*Continued.*			
216.	MENTAL HOME (SAANICH), COLQUITZ—*Continued.*			
	Brought forward	$ 43,138 39	$593,826 32	$ 134,273 92
	Expenses—*Continued.*			
	Incidentals and Contingencies—*Continued.*			
	Rock & Gravel Co., $84.50; Ramsay's Machine Works, $9.40; Reliable Messenger Co., $3; Reliable Transfer Co., $53.71; Salvation Army, $135; W. J. Savory, $37.15; A. E. Scaife, $1,134.11; Smith, Davidson & Wright, $59.16; D. Spencer, Ltd., $2.25; Strains, Ltd., $7.50; Sweeney Cooperage Co., $14.50; Times P. & P. Co., Ltd., $18; Turner, Beeton & Co., Ltd., $62.68; Waites & Knapton, $1; E. Webster, $28.50; Weiler Bros., Ltd., $54.01; A. & W. Wilson, $12.65; H. M. Wilson, $8; A. J. Woodward, $57.08; F. Wooster, $215	6,239 77		
	Total expenditure, Mental Home (Saanich), Colquitz		49,378 16	
	Total expenditure, Mental Hospitals			643,204 48
217.	PROVINCIAL HOME, KAMLOOPS.			
	Salaries ($11,605.62):			
	Superintendent ..... H. McLean		$ 1,299 96	
	Matron ..... M. McLean		900 00	
	Sundry employees		9,405 66	
			$ 11,605 62	
	Expenses ($32,869.04):			
	Office Supplies, etc.:			
	B.C. Telephone Co., Ltd., $48; Dominion of Canada Guarantee & Accident Insurance Co., $1.25; Dominion Express Co., $1.45; King's Printer, $29.10; postage, $31		110 80	
	Furniture and Fixtures:			
	J. L. Gordon, $134.47; N. S. Dalgleish, $13.25; Marlatt & Mackenzie, $15.25		162 97	
	Fuel, Light, and Water:			
	City of Kamloops, $635.70; H. Lund, $6,033.54; J. Milton, $509.69		7,178 93	
	Maintenance and Repairs of Buildings, Grounds, etc.:			
	Arrow Lakes Lumber Co., Ltd., $2.40; J. Bell, $2.75; R. C. Blackbourn, $14.60; A. Bruce, $69; City of Kamloops, $265.97; J. R. Colley, $99.35; N. S. Dalgleish, $522.68; H. Giddens, $37.50; J. L. Gordon, $21.09; Johnston & Co., Ltd., $4; Kamloops Plumbing & Heating Co., $125.85; Macbeth & Miller, Ltd., $4.40; W. P. and R. E. Mandale, $24; Marlatt & Mackenzie, $78.69; Massey-Harris Co., Ltd., $178.50; J. McKinnon, $24.75; A. J. McLean, $18; H. McLean, $19.20; J. Saxelby, $15; H. Turner, $3.50; C. L. Wain, $18.12; Wood Motor Co., $10.55; Webb-Barford Machine Co., $8.80; F. Weller, $9; Wyse & Harmon, $21.80		1,599 50	
	Provisions, etc.:			
	P. Burns & Co., Ltd., $4,002.03; Curry's Model Bakery, $3,111.46; A. H. Fenwick, $151.95; Kamloops District Creamery Association, $2,516.98; R. McCall, $9,201.35; Vic. Ranch Co., $90		19,073 77	
	Clothing, etc.:			
	Arduini Bros., $106.65; C. S. Campbell, $174.60; H. McLean, $1.90; Summers & Frost, $2,373.17		2,656 32	
	Medical and Surgical Supplies:			
	J. H. Clements, $408.68; W. J. Kerr, $3.75		412 43	
	Carried forward		$ 42,800 34	$ 777,478 40

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No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
217.	PROVINCIAL HOME, KAMLOOPS—*Continued.*		
	Brought forward	$ 42,800 34	$ 777,478 40
	Expenses—*Continued.*		
	Transportation of Inmates: C.P.R. Co., $97; Carr's Garage, $4; G. A. Carter, $7.55; O. Jacobson, $20; J. Mead, $6.75; H. McLean, $225.10; J. Philbert, $5; E. Poulen, $30; W. Shepherd, $5.20	400 60	
	Feed for Live Stock: J. R. Colley	985 87	
	Incidentals and Contingencies: J. Bell, $4.50; S. Dalgleish, $12; H. H. S. George, $35; J. L. Gordon, $171; Kamloops Telegram, $7.60; A. McLean, $6; S. S. Scott, $38; J. L. Secor, $12.50; H. Turner, $1.25	287 85	
	Total expenditure, Provincial Home, Kamloops		44,474 66
	GRANTS TO HOSPITALS AND CHARITIES.		
218.	STATUTORY GRANTS TO HOSPITALS.		
	Alert Bay (St. Georges), $2,508.50; Alexis Creek (Chilcotin), $114; Anyox, $2,551.60; Armstrong (Nursing Home), $1,214.90; Ashcroft (Lady Minto), $1,620.90; Atlin (St. Andrew's), $630; Barkerville (Royal Cariboo), $2,000; Bella Bella-Rivers Inlet, $1,158.20; Bella Coola, $662; Campbell River, $2,656; Carriden Bay, $57; Chemainus, $2,024.90; Chilliwack, $3,795; Comox (St. Joseph's), $4,272; Corbin, $175; Cranbrook (St. Eugene), $10,864.30; Cumberland, $5,260.50; Duncan (King's Daughters), $4,393.50; Enderby, $893; Fernie, $4,507; Francois Lake, $664; Ganges (Lady Minto), $1,391.30; Golden, $1,688.10; Grand Forks, $4,009.50; Hazelton, $3,780; Hedley, $166; Hutton, $1,351.50; Invermere (Windermere District), $1,074.20; Kamloops (Royal Inland), $16,326.10; Kaslo (Victorian), $2,087.40; Kelowna, $4,303.50; Ladysmith, $2,985.55; Lytton (St. Bartholomew's), $302; Merritt (Nicola Valley), $3,675.50; Michel, $1,380.10; Mission City (Memorial), $1,728.70; Nakusp, $822; Nanaimo, $7,661.30; Nelson (Kootenay Lake), $9,978.65; New Denver (Slocan), $1,372.80; New Westminster (Royal Columbian), $19,849.70; North Vancouver, $3,183; Penticton, $4,455; Port Alberni (West Coast General), $2,540.60; Port Essington, $465.60; Port Simpson, $2,890.80; Powell River (St. Luke's), $2,731.80); Prince George, $1,795.20; Prince Rupert, $8,573.25; Princeton, $1,886.90; Quesnel, $1,443.10; Revelstoke (Queen Victoria), $5,186; Rock Bay (St. Michael's), $1,198.80; Rossland (Mater Misericordiae), $3,174.60; Salmon Arm, $2,029; Sandon (Miners' Union), $2,185.65; Silverton, $1,226; Smithers (Bulkley Valley), $1,445.90; Stewart, $1,473.20; Summerland, $2,714.95; Trail, $3,362.30; Tranquille (King Edward Sanatorium), $69,069; Vancouver (General), $152,168.60; Vancouver (St. Paul's), $2,077.50; Vananda (Columbia), $219; Vernon (Jubilee), $8,019.35; Victoria (Royal Provincial Jubilee), $22,956.95; Ymir, $2,927.80	$449,356 05	
	Total expenditure, Statutory Grants to Hospitals	$449,356 05	
	Carried forward	$449,356 05	$ 821,953 06

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	GRANTS TO HOSPITALS AND CHARITIES—*Continued.*			
	Brought forward		$449,356 05	$ 821,953 06
219.	SPECIAL GRANTS TO HOSPITALS.			
	Campbell River, $750; Comox (St. Joseph's), $700; Golden, $1,000; Kamloops (Royal Inland), $10,000; New Denver (Slocan), $1,000; North Vancouver, $6,000; Pouce Coupe, $2,000; Princeton, $1,500; Quesnel, $500; Smithers, $1,500; Summerland, $5,000; Invermere (Windermere District), $1,500; City of Kamloops (grant *re* Smallpox Hospital), $1,000	$ 32,450 00		
	Total expenditure, Special Grants to Hospitals		32,450 00	
220.	GRANTS TO REFUGE HOMES, AID SOCIETIES, ETC.			
	New Westminster:			
	St. Mary's Hospital	$ 500 00		
	Vancouver:			
	Salvation Army Maternity & Rescue Home, $600; Victorian Order of Nurses, $250; Y.W.C.A., $500	1,350 00		
	Victoria:			
	St. Joseph's Hospital, $1,500; Victorian Order of Nurses, $250; Women's Christian Temperance Union, $1,700; Y.W.C.A., $300	3,750 00		
	Total expenditure, Grants to Refuge Homes, Aid Societies, etc.		5,600 00	
221.	IN AID OF DESTITUTE POOR AND SICK.			
	Sundry persons, grants for relief	$ 26,681 68		
			26,681 68	
222.	IN AID OF RESIDENT PHYSICIANS.			
	Alert Bay ..... Columbia Coast Mission	$ 500 00		
	Alexis Creek ..... I. H. Wright, M.D.	300 00		
	Alice Arm ..... R. G. Stevenson, M.D.	45 00		
	Atlin ..... J. E. Affleck, M.D.	41 65		
	Atlin ..... E. E. Rogers, M.D.	356 00		
	Bella Coola ..... W. Reinhard, M.D.	300 00		
	Carriden ..... Columbia Coast Mission	250 00		
	Chase ..... W. Scatchard, M.D.	300 00		
	Clayoquot Sound ..... D. S. Dixson, M.B.	300 00		
	Denman and Hornby Islands .. H. Meadows, M.D.	300 00		
	Edgewood ..... J. E. H. Kelso, M.D.	300 00		
	Francois Lake ..... A. A. Gray, M.D.	360 00		
	Ganges ..... E. M. Sutherland, M.D.	600 00		
	Greenwood ..... J. M. Burnett, M.D.	500 00		
	Howe Sound District ..... F. Inglis, M.D.	400 00		
	Lillooet ..... A. C. Nash, M.D.	400 00		
	Masset ..... A. A. Sutherland, M.D.	250 00		
	Nass District ..... D. J. McDonald, M.D.	300 00		
	Nakusp ..... E. H. S. McLean, M.D.	200 00		
	Parksville ..... T. T. Davis, M.D.	300 00		
	Port Simpson ..... R. W. Large, M.D.	150 00		
	Port Simpson ..... W. Sager, M.D.	150 00		
	Pouce Coupe ..... R. J. Elvin, M.D.	225 00		
	Pouce Coupe ..... W. A. Watson, M.D.	450 00		
	Quatsino ..... O. O. Lyons, M.D.	500 00		
	Quesnel ..... G. R. Baker, M.D.	300 00		
	Rock Bay ..... Columbia Coast Mission	300 00		
	Sidney ..... W. E. Bavis, M.D.	225 00		
	Carried forward	$ 8,602 65	$514,087 73	$ 821,953 06

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*				
	GRANTS TO HOSPITALS AND CHARITIES—*Continued.*				
222.	IN AID OF RESIDENT PHYSICIANS—*Continued.*				
	Brought forward		$ 8,602 65	$514,087 73	$ 821,953 06
	Smithers and Bulkley Valley	C. H. Hankinson, M.D.	300 00		
	Squamish	N. J. Paul, M.D.	300 00		
	Stewart	H. C. Davis, M.D.	550 00		
	Telegraph Creek	E. Rice, M.D.	400 00		
	Terrace	A. Beech, M.D.	191 66		
	Ucluelet	C. Maclean, M.D.	500 00		
	Upper Skeena	V. E. R. Ardagh, M.D.	300 00		
	Vananda	Columbia Coast Mission	250 00		
	Vanderhoof	W. R. Stone, M.D.	300 00		
	Williams Lake	F. V. Agnew, M.D.	100 00		
	Total expenditure, In Aid of Resident Physicians			11,794 31	
223.	BURIAL OF INDIGENT PERSONS.				
	B.C. Funeral Co., $35; B.C. Undertakers, $120; Campbell Bros., $127.50; Campbell River Trading Co., $20; Centre & Hanna, $50; R. H. Dwyer, $164; A. E. Ferguson, $40; Fernie Undertaking Co., $100; G. Fisher, $28.60; J. L. Gordon, $171; Hans Hage, $5; J. Henderson, $86; D. J. Jenkins, $40; H. Jorde, $4; T. J. Kearney & Co., $15; S. T. Larsen, $35; F. M. Macpherson, $205.90; E. Mills, $35; McAdie Undertaking Co., $60; J. McKay, $40; D. J. McRae, $25; A. E. Phillips, $60; E. W. Pillman & Co., $35; Powell River Co., Ltd., $27.48; C. Rasen and B. Wego, $10; Sands Funeral Co., Ltd., $60; Standard Furniture Co., $46.25; J. Sutton, $55; F. L. Thomson, $78; G. B. Thomson, $40; G. Trickett, $25; H. Whittaker, $2; R. Willson, Sr., $10; R. Willson, Jr., $13; V. Zini, $15		$ 1,883 73		
	Total expenditure, Burial of Indigent Persons			1,883 73	
	Total expenditure, Grants to Hospitals and Charities				527,765 77
224.	KING'S PRINTER.				
	Salaries ($113,974.40):				
	King's Printer and Comptroller of Stationery	W. H. Cullin		$ 2 820 00	
	Chief Clerk	W. H. Richdale		2,100 00	
	Clerk and Stenographer:				
	A. Grubb	$60 50	J. L. McCulloch	$1,536 00	1,596 50
	Accountant	F. L. Arthurs			1,574 97
	Cost Accountant	P. G. Cudlip			375 00
	Junior Clerk	T. J. Liddell			1,050 00
	Storekeeper	C. Mallandaine			1,500 00
	Mail Clerk	J. Andrew			1,272 00
	Stockman	R. P. Orchard			1,272 00
	Packer	F. J. White			1,110 00
	Messengers:				
	E. Edwards	$100 00	J. J. Grant	$60 00	
	H. Edwardson	50 00	D. McDiarmid	150 00	360 00
	Stenographer	L. P. Parfitt			585 00
	Sundry employees				98,358 93
				$113,974 40	
	Expenses ($139,688.33):				
	Office Supplies, etc.:				
	Armstrong Bros., $3; B.C. Telephone Co., Ltd., $257.19; C.P.R. Telegraphs, $2.97; Collector of Customs, $8.13; Dominion				
	Carried forward			$113,974 40	$1,349,718 83

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
224.	KING'S PRINTER—*Continued.*		
	Brought forward	$113,974 40	$1,349,718 83
	Expenses—*Continued.*		
	Office Supplies, etc.—*Continued.*		
	of Canada Guarantee & Accident Insurance Co., $7.50; W. S. Fraser & Co., Ltd., $6.12; G.N.W. Telegraph Co., $4.60; Griffith & Co., $19.50; E. S. Harris, $1; Inland Printer Co., $4.50; King's Printer, $522.54; Macey-Abell Co., Ltd., $104; MacLean Publishing Co., Ltd., $5.58; H. P. McDowell, $5; postage, $1,289.92; Reliable Transfer, $26.50; Smith, Davidson & Wright, Ltd., 75c.; Turner, Beeton & Co., Ltd., $32.06; United Typewriter Co., Ltd., $12; Victoria Book & Stationery Co., Ltd., $9.40; Victoria Steam Laundry, $50.41; A. & W. Wilson, $6.90; Weiler Bros., Ltd., $3; C. Wing's Sons, $25.....	2,407 57	
	Travelling Expenses:		
	W. H. Cullin	10 95	
	Printing-paper, Materials, and Incidentals:		
	Ault & Wiborg Co. of Canada, Ltd., $26.50; R. W. Babbage, $526.46; Barber-Ellis, Ltd., $9,206.30; British-America Paint Co., Ltd., $7.65; B.C. Saddlery Co., Ltd., $13.50; Brown Bros., Ltd., $1,923.73; Buntin, Gillies & Co., Ltd., $526.72; California Ink Co., Inc., $30.43; C.P.R. Co., $551.15; Canada Printing Ink Co., Ltd., $9.35; Clarke & Stuart Co., Ltd., $2,041.79; Collector of Customs, $453.32; Colonist P. & P. Co., Ltd., $101.72; Columbia Paper Co., Ltd., $9,094.15; Columbia Printing Ink & Roller Co., $15; Copeland-Chatterson, Ltd., $181.80; A. Cowan & Sons, Ltd., $3,489.80; Drake-Hardware Co., Ltd., $1.20; W. Duncan, $36; W. V. Dawson, Ltd., $1.22; Dominion Express Co., $44.10; E. B. Eddy Co., Ltd., $31,573.70; E. & N. Railway Co., $1,773.73; Gordon-Drysdale, Ltd., $4.50; N. F. Hall Co., Ltd., $1,712.64; J. Heaney, $114.50; Ivel's Pharmacy, 15c.; C. E. Johnson Co., $178.04; Kinleith Paper Mills, Ltd., $1,552.28; J. Leigh & Sons, $7.75; Mander Bros., $563.01; Mitchell Bros., $1,269.91; J. L. Morrison Co., $65.95; Pacific Steamship Co., $2.25; Peden Bros., $6.25; G. R. Reed Co., $72.34; Reliable Transfer, $16.50; Rexine, Ltd., $74.11; R. P. Rithet & Co., $6.10; Ship Chandlers, Ltd., $3.45; Sinclair-Valentine & Hoops, $62.50; Smith, Davidson & Wright, Ltd., $8,460.05; D. Spencer, Ltd., $109.90; Staneland Co., Ltd., 90c.; W. H. Thornhill Co., $56; Times P. & P. Co., Ltd., $15.82; Turner, Beeton & Co., Ltd., $457.93; Victoria P. & P. Co., $152; E. J. Wall, $6.50; Wall & Teusz, $8.55; Whitaker Paper Co., $366.76; Wickett & Craig, Ltd., $99.18; A. Whyte & Son, Ltd., $821.54	77,896 68	
	New Machinery, Type, Maintenance of Plant, Repairs, etc.:		
	American Printers' Roller Co., $4.20; R. Angus, $11.11; Barnhart Bros. & Spindler, $215.55; R. S. Beckwith, $1.65; British America Paint Co., Ltd., $3.82; B.C. Brush Works, Ltd., $29.80; B.C.E.R. Co., Ltd., $372.15; B.C. Saddlery Co., Ltd., 75c.; Buntin, Gillies & Co., Ltd., $2.50; Canadian Fairbanks-Morse Co., Ltd., $58.06; Canadian General Electric Co., Ltd., $2.80; Canadian Linotype Co., Ltd., $427.83; Canada Metal Co., Ltd., $284.96; C.P.R. Co., $23.54; Carter Electric Co., Ltd., $248.50; Canadian Westinghouse Co., Ltd., $92.48; Carmichael Blanket Co., $37.87; Chicago Lino-Tabler Co., $11.09; Collector of Customs, $434.12; Colonist P. & P. Co., Ltd., $4.50; Columbia Printing Ink & Roller Co., $316.17; Domestic Mills Paper Co., $153.95; Dom. Express Co., $7.41; Drake Hardware Co., Ltd., $41.25; H. Edwards, $4.25; E. & N. Rly. Co., $38.54; Fleck Bros., Ltd., $7.25; Gordon St. Machine Shop, $40.90; Hafer Machine Co., Ltd., $40.69; N. F. Hall Co., $87.47; J. Heaney, $28; Houghton & Evans, $30.24; Imperial		
	Carried forward	$194,289 60	$1,349,718 83

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
224.	King's Printer—*Continued.*			
	Brought forward		$194,289 60	$1,349,718 83
	Expenses—*Continued.*			
	Printing-paper, Materials, and Incidentals—*Continued.*			
	Oil, Ltd., $103.68; Ivel's Pharmacy, $6; Jameson & Willis, Ltd., $20.96; J. Leigh & Sons, $24.91; Lemon-Gonnason Co., Ltd., $15.80; Lofts & Bosustow, $57.75; E. B. Marvin & Co., $47.49; Miller & Richard, $556.10; Miller Saw-Trimmer Co., $1,799.53; G. H. Morrill & Co., $14.40; J. L. Morrison Co., $34; W. F. McCulloch, $1.50; National Drug & Chemical Co. of Canada, Ltd., $7.50; E. G. Prior & Co., $12.16; Public Works Department, $39.20; Reliable Transfer, $24.25; R. P. Rithet & Co., $2.40; Ship Chandlers, Ltd., $24.13; Smith, Davidson & Wright, Ltd., $27.50; Smith, Robinson & Co., $361.55; D. Spencer, Ltd., 50c.; Times P. & P. Co., Ltd., $18.60; Turner, Beeton & Co., $256.54; Victoria Gas Co., Ltd., $443.03; Wall & Teusz, $46.60; Weiler Bros., Ltd., $3.15; Wetter Numbering Machine Co., $106.63; Whitaker Paper Co., $67.21; A. & W. Wilson, $1.50; J. T. Wright & Co., $11.62		7,199 59	
	Stationery:			
	W. D. Balfour Co., $365; Barber-Ellis, Ltd., $9,483.09; B.C. Carbon & Ribbon Co., $451.50; B.C. Hardware & Paint Co., Ltd., $4; B.C. Saddlery Co., Ltd., $70.35; Brown Bros., Ltd., $2,297.68; Buntin, Gillies & Co., Ltd., $420.77; Canadian Express Co., $24.95; Canadian Numbering Machine Co., $50.88; C.P.R. Co., $129.31; Canadian Patriotic Fund, $100; Carrib, Ltd., $82.50; Clarke & Stuart Co., Ltd., $3,861.39; Collector of Customs, $192.92; Columbia Paper Co., Ltd., $7,130.59; G. H. Cottrell, $9; A. Cowan & Sons, Ltd., $119.34; Davis & Henderson, Ltd., $231.20; Dennison Manufacturing Co., $244.87; Department of Public Printing and Stationery, Ottawa, $53.25; Diggon's, $383.45; Dominion Express Co., $119.25; Dominion Rubber System (Pacific), Ltd., $378.30; Drake Hardware Co., Ltd., $4.65; H. Edwards, $1; Electric Blue Print & Map Co., $1,627.53; E. & N. Railway Co., $99.49; M. & H. A. Fox, $15.40; W. J. Gage & Co., Ltd., $280.91; G.T.P. Coast Steamship Co., Ltd., $2.85; E. S. Harris, 50c.; J. Haynes, $90; G. H. Hewitt Co., Ltd., $386.75; T. N. Hibben & Co., $90.74; Houghton & Evans, $204.34; Ivel's Pharmacy, 90c.; King's Printer, $68.21; Lands Department, $1.25; Macey-Abell Co., Ltd., $4,185.73; Menzies & Co., Ltd., $746.55; Mitchell Bros., $153.59; H. P. McDowell, $970.32; A. J. McCrae, $190.75; National Institute for the Blind, $7.41; Newton Advertising Agency, $70.21; Office Specialty Manufacturing Co., Ltd., $1,617.41; Ormiston & Glass, Ltd., $287.74; Peerless Products, Ltd., $529.09; Progress Publishing Co., Ltd., $3; Reliable Messenger & Delivery Co., 75c.; Reliable Transfer, $144.50; Remington Typewriter Co., Ltd., $458.65; A. L. Shipman's Sons, $83.59; Smith, Davidson & Wright, Ltd., $6,135.59; Staneland Co., Ltd., $9; Stolzenberg Patent File Co., Ltd., $170; Sweeney-McConnell, Ltd., $723.45; Turner, Beeton & Co., Ltd., $192.89; United Typewriter Co., Ltd., $2,073.44; Victoria Book & Stationery Co., Ltd., $3,760.33; Victoria Furniture Co., Ltd., $4.75; Warwick Bros. & Rutter, Ltd., $49.84; Western Specialty, Ltd., $514.85; W. & J. Wilson, $12		52,173 54	
	Total expenditure, King's Printer			253,662 73
225.	Civil Service Commision.			
	Salaries ($8,814.60):			
	Commissioner ..... W. H. MacInnes		$ 4,120 00	
	Clerks:			
	H. B. French .....$133 33 G. Hornsey $1,428 35		1,561 68	
	Carried forward		$ 5,681.68	$1,603,381.56

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
225.	CIVIL SERVICE COMMISSION—*Continued.*			
	Brought forward	$ 5,681 68		$1,603,381 56
	Salaries—*Continued.*			
	Stenographers:			
	E. Barrowclough $840 00; M. Rourke $17 50			
	T. Evans 560 00; H. M. Russell 65 00			
	A. George 57 50; M. Sibbald 7 50			
	R. Robertson 857 92; V. Smart 900 00		3,305 42	
		$ 8,987 10		
	Less charged to departments for substitute work	172 50		
		$ 8,814 60		
	Expenses ($2,527.06):			
	Office Supplies, etc.:			
	B.C. Telephone Co., Ltd., $60; Bulletin Publishing Co., Ltd., $3.25; King's Printer, $731.75; Litchfield's, Ltd., $1.50; Macey-Abell Co., Ltd., $41.05; postage, $106.42; Times P. & P. Co., Ltd., $6.95; Vancouver Daily Province, $4	$ 954 92		
	By cash	100 00	854 92	
	Travelling Expenses:			
	W. H. MacInnes		920 20	
	Advertising:			
	Cariboo Observer, $4.56; Columbian Co., Ltd., $6; Fernie Free Press, $3.12; King's Printer, $5; Merritt Herald, $3.96; Nanaimo Free Press, $12.40; News Publishing Co., Ltd., Nelson, $5.80; Times P. & P. Co., Ltd., $73.50; Vancouver Daily Province, $121.55; Vancouver Daily Sun, $1.44; Vernon News P. & P. Co., Ltd., $2.20		239 53	
	Examinations:			
	Colonist P. & P. Co., Ltd., $20.40; Cranbrook Courier, $9.92; W. Grieve, $5; W. J. Hardie, $5; G. Hornsey, $32.40; King's Printer, $173.30; News Publishing Co., Ltd., Nelson, $10.68; News P. & P. Co., Prince Rupert, $6.53; Times P. & P. Co., Ltd., $28.80; Vancouver Daily Province, $43.20; Vancouver Daily Sun, $35.28; pay-lists, Examiners' fees, $137.50	$ 508 01		
	Less fees	182 00	326 01	
	Contingencies:			
	B.C. Telephone Co., Ltd., $50.90; C.P.R. Telegraphs, $82.64; Colonist P. & P. Co., Ltd., $18.75; Dominion Government Telegraphs, 96c.; G.N.W. Telegraph Co., $11.15; Times P. & P. Co., Ltd., $12; Wrigley Directories, Ltd., $10		186 40	
	Total expenditure, Civil Service Commission			11,341 66
226.	REGISTRATION OF VOTERS.			
	Salaries ($43,768.90):			
	Registrar ..... W. W. Baer		$ 848 00	
	Deputy Registrars ..... Pay-lists		33,825 11	
	Temporary Assistance ..... Pay-lists		9,095 79	
			$ 43,768 90	
	Expenses ($17,269.33):			
	Travelling Expenses:			
	V. E. Andrew, $57.89; W. H. Archer, $1.56; A. Bannen, $24; J. L. Barge, $75; T. A. Barnard, $48.40; E. E. Bird, $18.62; J. R. Brown, $36; A. N. Cameron, $203.30; C. C. Carey, $19; G. F. G. Clingan, $96.91; W. G. Cook, $2.75; W. H. Cook,			
	Carried forward		$ 43,768 90	$1,614,723 22

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
226.	REGISTRATION OF VOTERS—*Continued.*		
	Brought forward	$ 43,768 90	$1,614,723 22
	Expenses—*Continued.*		
	Travelling Expenses—*Continued.*		
	$33.05; G. W. Cripps, $7.40; E. P. Crosby, $16.90; R. F. Davis, $33.10; J. Dick, $272; P. Donaldson, $17.75; R. Duffy, $58.25; G. S. Duncan, $158.40; W. H. Dunn, $57.25; H. Durham, $2; W. E. Ekins, $152.90; E. H. Evans, $24.80; N. R. Fallis, $44.70; E. J. Feary, $2.75; W. W. Ferguson, $19.45; E. Fischer, 75c.; A. Flemming, $73.60; G. E. Foster-Thomas, $85.10; W. J. Fraser, $192.20; I. Guest, $117.75; W. Guthrie, $3; A. Hammer, $72.25; B. Hansen, $116.67; C. Hartley, $42.70; H. Hearns, $2.75; R. Hewat, $16.25; W. R. Hillyer, $108.70; H. H. Hollins, $13.19; H. P. Horan, $183.30; J. B. Howes, $110.95; G. A. Huff, $23.65; H. Hughes, $13.75; A. H. Huntley, $38.70; P. Jackman, $44.27; H. Johnston, $36; E. A. D. Jones, $108.90; L. H. Kenney, $12.90; J. Mahony, $67.52; J. Maitland-Dougall, $8.95; A. R. Mallory, $44.80; L. A. Menendez, $13.10; T. Menzies, $59.45; C. L. Merritt, $531.32; D. M. Mitchell, $62.50; A. H. Mogridge, $64; E. H. Mortimer, $86.10; G. H. Morton, $146.47; G. C. Mouat, $188.90; J. E. MacDonald, $13.94; P. MacDonald, $9.45; M. MacLeod, $130.35; H. P. McCraney, $14.18; J. F. McCutcheon, $164.10; H. D. McDougall, $111.85; L. S. McGill, $124.15; F. J. McMahon, $32.75; S. J. McNally, $6.20; J. R. Peach, $7.53; R. Pearce, $16; C. H. Price, $54.30; G. E. Prosser, $113.40; M. A. Rombough, $5; P. E. Rowlands, $190.95; F. J. Russell, $2.85; J. F. Simmons, $203; S. S. Simpson, $37.40; G. C. Sinclair, $45; O. J. Smith, $744.82; W. R. Stanton, $126.45; T. Steele, $31.15; J. Stewart, $170.50; H. W. Stones, $161.93; H. P. Thorpe, $6; L. Titelborn, $3.55; E. A. Townsend, $8.50; C. Usher, $2.65; W. W. Walkem, $29.15; G. J. C. White, $23.76; J. Williams, $101.85	6,867 28	
	Miscellaneous:		
	J. S. Anderson & Co., Ltd., $189.25; Ashcroft Print Co., Ltd., $28.80; Associated Brokerage Co., $11; H. E. Astley, $30; W. C. Atherton, $10; C. F. Beaven, $18; S. J. Birch, $10; B.C.E.R. Co., $22.17; B.C. Telephone Co., $61.69; A. G. Brook, $30; G. W. Brown, $40; Burr Office Supplies & Blue Printing Co., $10; F. B. Campbell, $41; Campbell's Storage Co., Ltd., $10.50; Canadian Bible Society, $5.04; C.P.R. Telegraphs, $452.83; Cariboo Observer, $31.20; R. H. Carson, $25; F. M. Carter, $15; Central Interior Printing Co., Ltd., $9; Chilliwack Progress, $27; Clarke & Stuart Co., Ltd., $114.90; Columbian Co., Ltd., $55.44; Comox Argus, $13.44; Cowichan Leader Printing & Publishing Co., Ltd., $23.04; M. H. Craig, $15; Cranbrook Courier, $47.22; Creston Review, $26.30; Dominion Express Co., $13.43; Dominion Government Telegraphs, $82.81; J. H. Donaldson, $40; Electric Supply and Contracting Co., Ltd., $8.10; Empire Cartage Co., $2; F. W. Fairhall, $25; Fernie Free Press, $19.80; W. Flanagan, $1.75; A. M. Fletcher, $1.50; A. C. Giles, $17.25; E. S. Gilmore, $5; Glazier Bros., $30; Gazette Printing Office, $17.50; Golden Star Publishing Co., $36; Granby Consolidated M., S. & P. Co., Ltd., $5.25; Grand Forks Sun, $22; Great Northern Railway Co., $2.44; G.N.W. Telegraph Co., $48.66; G.T.P. Telegraph Co., $113.42; J. W. Grier, $22; Hanson Garage, $61.15; Harvey & Gorrie, $14.50; P. A. Haslam, 30c.; Hawkins & Hayward, $14.90; Heisterman, Forman & Co., $208; G. H. Hewitt Co., Ltd., $50.61; T. H. Hobiu, $1.68; W. J. Holdom, $15; Interior News, $39; H. A. Jacoby, $325; Kelowna Courier, $29.60; Kelowna Record, $10.80; F. Kidd, $35; King's Printer, $4,629.83; H. T. Kirk, $10; Kitsilano Times, $72; Ladysmith Chronicle, $57.84; The Ledge, $43.80; Lee & Fraser, $37.50; P. F. Letts,		
	Carried forward	$ 50,636 18	$1,614,723 22

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
226.	REGISTRATION OF VOTERS—*Continued.*			
	Brought forward		$ 50,636 18	$1,614,723 22
	Expenses—*Continued.*			
	Miscellaneous—*Continued.*			
	$10; A. Lomas, $15; R. H. Marlatt, $25; A. Martin, $2.50; F. Mellor, $16; C. L. Merritt, $9.35; Merritt Herald, $18.72; G. Mickleborough, $25; Morgan & Mellson, $14; W. B. Morrison, $155.80; J. Murray, $10; H. P. McCool, $25; H. P. McCraney, $50; Nanaimo Free Press P. & P. Co., Ltd., $42.24; Nechako Chronicle, $12; News Publishing Co., Ltd., $41.17; News Printing & Publishing Co., $102.05; North Shore Press, Ltd., $19.20; W. E. O'Brien, $34.50; Observer Printing & Publishing Co., Ltd., $17.50; O. A. Olson, $28.28; Omineca Herald, $36; Pacific Transfer Co., Ltd., $70; A. W. Pennykid, $40; Penticton Herald, $34.28; Port Alberni P. & P. Co., Ltd., $35.76; Portland Canal News, $18; postage, $252.15; Princeton Star, $14.40; Public Works Department, $6.60; M. E. Ranns, $30; J. Reid, $20; Reliable Transfer Co., $25.50; Remington Typewriter Co., $30; Revelstoke Review Publishing Co., Ltd., $26.80; Review Publishing Co., Ltd., $24.24; Robertson & Hackett Sawmills, Ltd., $13.69; G. A. Roedde, Ltd., 50c.; Rossland Saturday Night Miner, $29.76; A. R. Sherk, $24; Sidney and Islands Review, $6.48; Smith & Chamption, $27.75; Success Business College, $37.50; J. P. Sutherland, 50c.; Terrace News, $29.40; Times Printing & Publishing Co., Ltd., $120; United Typewriter Co., Ltd., $108; Vancouver Map & Blue Print Co., $10.80; Vancouver Business Institute, Ltd., $61.50; Vancouver Daily Province, $167.40; Vancouver Daily Sun, $209.70; W. J. Vernon, $40; Vernon News P. & P. Co., Ltd., $37.20; City of Victoria, $4; Victoria Auto Livery, Ltd., $83.25; Victoria Printing & Publishing Co., $77; A. Vogee, $105; Waghorn, Gwynn & Co., Ltd., $5; J. Ward, $70; Weekly Gazette, $56.34; L. Wiethoff, $40; Woodward Departmental Stores, Ltd., $63; The World, $54; D. Young, $40		10,402 05	
	Total expenditure, Registration of Voters			61,038 23
227.	ROYAL COMMISSIONS.			
	Liquor Inquiry ($3.45):			
	Vancouver Daily Province		$ 3 45	
	Liquor Compensation Inquiry ($2,500):			
	Hon. Mr. Justice Morrison		2,500 00	
	Agricultural Commission, 1913 ($25):			
	E. S. Woodward, trustee of the late M. J. M. Bellasis		25 00	
	Kingsway Local Improvement Assessment Inquiry ($974.40):			
	G. E. Haneox, $545; Clarke & Stuart, $2.20; F. A. Kiell, $110; King's Printer, $9; A. G. Moore, $5; P. J. Mackay, $243; W. T. Riley, $35; Vancouver Daily Province, $13.20; Vancouver Daily Sun, $12		974 40	
	"Public Inquiries Act" ($9):			
	King's Printer		9 00	
	Health Insurance Commission ($1,038.30):			
	E. S. H. Winn, Chairman, 3½ days @ $10 *per diem*	$ 35 00		
	T. B. Green, Commissioner, 27½ days @ $10 *per diem*	275 00		
	R. W. Lane, Secretary, 1½ months @ $200 per month	300 00		
	F. McMurphy, Stenographer	16 65		
	Travelling expenses of the Commission	28 20		
	Miscellaneous:			
	American Economic Review, $1.55; B.C. Telephone Co., Ltd., $12.45; Clarke & Stuart Co., Ltd., $2.25; N. Fitzgerald, $342.70; telegrams, $4.50; Vancouver Bindery, $20	383 45		
			1,038 30	
	Total expenditure, Royal Commissions			4,550 15
	Carried forward			$1,680,311 60

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	Brought forward		$1,680,311 60
229.	CITY OF GREENWOOD.		
	Grant		1,000 00
230.	CITY OF PHOENIX.		
	Grant		4,500 00
231.	CITY OF ROSSLAND.		
	Grant		12,000 00
232.	PACIFIC NORTH-WEST TOURIST ASSOCIATION.		
	Grant		12,500 00
233.	GRANT FOR PATRIOTIC PURPOSES, RETURNED SOLDIERS' AID COMMISSION, ETC.		
	Returned Soldiers' Aid Commission:		
	Salaries ($11,570.35):		
	Chairman ..... F. A. Robertson	$ 3,000 00	
	Secretaries:		
	G. F. Pyke (2 mos.) $450 00 — R. D. Smith (10 mos.) $1,250 00	1,700 00	
	Vancouver Representative ..... G. C. Hodge	1,200 00	
	Clerk ..... R. D. Smith (2 mos.)	170 00	
	Investigator ..... E. Murgatroyd	1,160 00	
	Stenographers:		
	G. Blizard ..... $289 35 — E. Hodge $208 00		
	E. Brindell ..... 920 00 — V. Trenchard 840 00		
	V. Cockett ..... 840 00 — E. G. Tysoe 720 00		
	E. G. Fynn ..... 120 00 — W. Whitmee 208 00		
	S. Gosse 195 00	4,340 35	
		$ 11,570 35	
	Expenses ($2,374.62):		
	Travelling Expenses:		
	G. B. Brown, $23.10; T. M. Harnett, $18.25; G. C. Hodge, $37.30; A. Leighton, $115.10; E. Murgatroyd, $20.62; G. F. Pyke, $27.11; F. A. Robertson, $211.20; R. D. Smith, $8.55; H. L. W. Tupper, $22; A. E. Vert, $21.50	504 73	
	Incidentals:		
	Anglo-Canadian Warehouse Co., Ltd., $3.75; B.C. Telephone Co., Ltd., $107.50; Brown Bros. & Co., Ltd., $225.60; Brown's Victoria Nurseries, Ltd., $72; C.N. Railway Co., $125.68; C.P.R. Telegraphs, $51.68; Colonist P. & P. Co., Ltd., $3; Dominion of Canada Guarantee & Accident Insurance Co., $8.15; Dominion Express Co., $7.94; Government Telegraph Service, $3.20; W. S. Fraser & Co., Ltd., $2.85; E. J. Galloway, 40c.; G.N.W. Telegraph Co., $104.72; G. H. Hewitt Co., Ltd., $1.55; C. E. Hildreth, $2; J. H. How, $57; King's Printer, $647.69; E. B. Marvin & Co., 45c.; E. Murgatroyd (petty accounts), $17.43; postage, $353.90; Reliable Transfer Co., $9.50; Robson Taxi Service, $4; Robson Transfer Service, $24.50; Sweeney-McConnell, Ltd., $1.25; Times P. & P. Co., Ltd., $6; United Typewriter Co., Ltd., $24.05; Vancouver Daily Province, $3.50; Vancouver Stationery, Ltd., 60c.	1,869 89	
	Total, Returned Soldiers' Aid Commission	$ 13,944 97	
	Miscellaneous Grants (157,560.68):		
	Amputation Club, $100; Army & Navy Veterans, Victoria, $2,000; Boy Scouts' Association, $1,000; Canadian Air Service Association (B.C. Branch), $750; G.W.V.A., Abbotsford, $130; G.W.V.A., Armstrong, $200; G.W.V.A., Chilliwack, $336; G.W.V.A., Cranbrook, $475; G.W.V.A., Duncan, $450; G.W.V.A.,		
	Carried forward	$ 13,944 97	$1,710,311 60

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
233.	GRANT FOR PATRIOTIC PURPOSES, RETURNED SOLDIERS' AID COMMISSION, ETC.—*Continued.*		
	Brought forward	$ 13,944 97	$1,710,311 60
	Miscellaneous Grants—*Continued.* Edgewood, $50; G.W.V.A., Fernie, $500; G.W.V.A., Kamloops, $700; G.W.V.A., Kerrisdale, $225; G.W.V.A., Merritt, $100; G.W.V.A., McBride, $100; G.W.V.A., Nelson, $450; G.W.V.A., New Denver, $100; G.W.V.A., North Vancouver, $500; G.W.V.A., Port Clements, $60; G.W.V.A., Prince Rupert, $500; G.W.V.A., Revelstoke, $450; G.W.V.A., Salmon Arm, $210; G.W.V.A., Smithers, $120; G.W.V.A., South Vancouver, $400; G.W.V.A., Vancouver (Provincial Command), $2,400; Gunners' & Sappers' Overseas Service Club, $300; Imperial Veterans, Vancouver, $2,000; Navy League of Canada (B.C. Division), $1,000; Returned Soldiers' Employment Committee, Nanaimo, $120; Returned Soldiers' Employment Committee, New Westminster, $1,200; Returned Soldiers' Club, Vancouver, $4,800; Veterans of France, Victoria, $1,200	22,926 00	
	Relief grants	134,634 68	
	Total expenditure, Grant for Patriotic Purposes, etc.		171,505 65
	NOTE.—For operations of Returned Soldiers' Aid Commission *see* Appendix D.		
234.	IMPERIAL PRESS CONFERENCE.		
	Grant towards expenses		5,000 00
235.	SUPERANNUATION.		
	G. W. Aikman, $720; J. K. Anderson, $900; F. W. Banton, $257.40; M. Bate, $1,080; M. Beatty, $240; C. H. F. Blake, $300; T. C. Boulton, $780; A. G. Brown, $420; W. Brown, $568.80; J. Brymner, $840; W. Burns, $945; J. Burr, $900; A. J. Butler, $360; C. Cameron, $600; H. P. Christie, $685.80; H. Combe, $1,359.48; C. H. Cookson, $785.20; E. J. Corrigan, $300; C. E. Costerton, $480; J. Crawford, $420; W. A. Dashwood-Jones, $375; H. Davis, $300; W. Davis, $554.40; W. Dodd, $600; C. Donaldson, $600; D. Donaldson, $600; W. A. Earle, $480; E. M. Fort, $1,168.20; J. D. Fraser, $360; F. C. Gamble, $1,200; W. Gordon, $960; D. Graham, $480; S. B. Green, $360; W. J. Green, $302.88; Hon. J. H. Helmcken, $400; C. E. Holt, $780; J. D. Hopkins, $360; W. T. L. House, $480; G. Marsden, $480; G. B. Martin, $960; J. H. Mason, $420; J. M. Miller, $451; T. Morgan, $900; J. Munro, $600; P. Murphy, $420; J. M. Mutter, $170; E. B. McKay, $1,200; G. H. H. McKay, $720; D. J. McKim, $240; J. A. McMartin, $480; C. R. Nairne, $1,080; A. C. Nelson, $900; M. Parsons, $480; F. Partridge, $966.48; C. Phair, $1,356; S. Phipps, $480; J. Porter, $960; J. Rankin, $310.32; A. C. Reddie, $1,320; R. Rees, $480; J. K. Salter, $257.88; L. Scholefield, $780; W. E. Scott, $1,200; G. Simon, $780; J. F. Smith, $360; J. McB. Smith, $1,440; F. S. Spain, $425; J. H. Sprott, $900; A. Stevenson, $720; D. Stephenson, $1,080; J. Strang, $420; G. Thomson, $280; Hon. J. H. Turner, $6,000; J. Vicars, $900; D. Wilson, $1,668.72; F. C. Wolfenden, $660; T. E. Woolridge, $960	$ 57,507 56	
	Total expenditure, Superannuation		57,507 56
236.	GRATUITIES UNDER SECTION 45, "CIVIL SERVICE ACT."		
	Mrs. M. A. Banks, $385; Mrs. J. W. Bland, $300; Mrs. J. Bulman, $525; Mrs. E. Doherty, $930; Mrs. E. Minckler, $285; Mrs. S. E. Stanfield, $360	$ 2,785 00	
	Total expenditure, Gratuities under "Civil Service Act"		2,785 00
	Carried forward		$1,947,109 81

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	Brought forward		$1,947,109 81
238.	ASSESSMENT ON CLASS 13, "WORKMEN'S COMPENSATION ACT."		
	Workmen's Compensation Board		50,000 00
239.	SALARIES OF MEMBERS OF WORKMEN'S COMPENSATION BOARD.		
	Chairman ..... E. S. H. Winn	$ 6,500 00	
	Commissioners:		
	H. B. Gilmour ..... $5,000 00 P. Williams $5,000 00	10,000 00	
	Total expenditure, Salaries of Members of Workmen's Compensation Board		16,500 00
240.	SALARIES, INDUSTRIAL SCHOOL AND SUBNORMAL BOYS' SCHOOL.		
	Nil		.....
241.	MAINTENANCE AND FURNISHING, INDUSTRIAL SCHOOL AND SUBNORMAL BOYS' SCHOOL.		
	J. Mayers		1,646 95
242.	CONTINGENCIES AND INCIDENTALS.		
	Re Funeral of the late Lieut.-Governor, Hon. E. G. Prior: B.C. Funeral Co., Ltd., $560; Brown's Victoria Nurseries, $25; J. M. Miller, $150; Dean C. S. Quainton, $18	$ 753 00	
	Re Imperial Press Conference: Empress Hotel, $548.50; King's Printer, $31.50; L. Turner, $40; H. J. Young, $121	741 00	
	Miscellaneous: B.C. Government Vendors' Liquor Store, $16; B.C. Hospital Association (grant), $500; Canadian Medical Association (Vancouver Branch), grant, $500; Central Canada Express Co., $6.92; Chandler & Fisher, Ltd., $77.68; P. T. Dark, $504; L. G. Houle, $40.30; Ivel's Pharmacy, $101.76; King's Printer, $2,033.92; Peace River Navigation Co., $2.50; Wilkerson & Brown, $10 ...	3,793 08	
	Total expenditure, Contingencies and Incidentals		5,287 08
	STATUTORY EXPENDITURE.		
	"Temperance Plebiscite Act, 1920."		
	Administration ($3,155.55): Salaries ($557.65): W. W. Baer ..... $400 00 G. H. Jennings ..... $ 1 75; L. P. Collins ..... 33 00 M. Rickaby ..... 1 00; A. Grubb ..... 84 40 D. Scott 37 50	$ 557 65	
	Miscellaneous ($2,597.90): F. E. Archer Hardware Co., $1.25; B.C.E.R. Co., Ltd., 75c.; B.C. Telephone Co., Ltd., $2; F. E. Cameron, 50c.; Canadian Bank of Commerce, $3.42; Canadian Express Co., $3.60; C.P.R. Telegraphs, $148.33; Dominion Express Co., $15.63; Dominion Government Telegraphs, $2.38; W. S. Fraser & Co., Ltd., $8.20; King's Printer, $2,271.36; Macey-Abell Co., Ltd., $15.30; J. MacKay, $4; postage, $111.18; United Typewriter Co., Ltd., $10	2,597 90	
	Total, Administration	$ 3,155 55	
	Alberni Electoral District: Returning Officer, G. A. Huff ..... $ 250 00; Election Clerk, J. F. Bledsoe ..... 90 00; Sundry expenses, Deputy Returning Officers, Poll Clerks, etc. 1,009 18	1,349 18	
	Carried forward	$ 4,504 73	$2,020,543 84

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	STATUTORY EXPENDITURE—*Continued.*			
	"Temperance Plebiscite Act, 1920"—Continued.			
	Brought forward		$ 4,504 73	$2,020,543 84
	Atlin Electoral District:			
	Returning Officer, H. Andrews	$ 200 00		
	Election Clerk, H. C. Manning	45 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,267 88		
			1,512 88	
	Cariboo Electoral District:			
	Returning Officer, W. E. Ekins	$ 250 00		
	Election Clerk, H. P. Hughes	130 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,068 00		
			1,448 00	
	Chilliwack Electoral District:			
	Returning Officer, R. Marshall	$ 250 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	802 41		
			1,052 41	
	Columbia Electoral District:			
	Returning Officer, A. M. Langlands	$ 250 00		
	Election Clerk, J. S. Blakely	40 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	683 58		
			973 58	
	Comox Electoral District:			
	Returning Officer, J. J. Wier	$ 250 00		
	Election Clerk, A. MacKinnon	100 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	4,990 12		
			5,340 12	
	Cowichan Electoral District:			
	Returning Officer, E. F. Miller	$ 200 00		
	Election Clerk, H. W. Dickie	40 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	704 03		
			944 03	
	Cranbrook Electoral District:			
	Returning Officer, T. M. Roberts	$ 200 00		
	Election Clerk, C. R. Ward	160 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	801 53		
			1,161 53	
	Delta Electoral District:			
	Returning Officer, F. Hugh	$ 200 00		
	Election Clerk, B. L. Hugh	80 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,360 02		
			1,640 02	
	Dewdney Electoral District:			
	Returning Officer, H. Ferguson	$ 200 00		
	Election Clerk, T. Paterson	130 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,136 20		
			1,466 20	
	Esquimalt Electoral District:			
	Returning Officer, H. Hearns	$ 300 00		
	Election Clerk, P. J. Sinnott	60 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	807 31		
			1,167 31	
	Carried forward		$ 21,210 81	$2,020,543 84

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	STATUTORY EXPENDITURE—*Continued.*			
	"Temperance Plebiscite Act, 1920"—Continued.			
	Brought forward		$ 21,210 81	$2,020,543 84
	Fernie Electoral District:			
	Returning Officer, D. J. Black	$ 250 00		
	Election Clerk, H. A. Bryant	70 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,504 65		
			1,824 65	
	Fort George Electoral District:			
	Returning Officer, E. S. Peters	$ 200 00		
	Election Clerk, A. Wimbles	180 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	3,213 68		
			3,593 68	
	Grand Forks Electoral District:			
	Returning Officer, R. Campbell	$ 200 00		
	Election Clerk, P. Donaldson	150 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	392 15		
			742 15	
	Greenwood Electoral District:			
	Returning Officer, W. Lakeland	$ 200 00		
	Election Clerk, W. C. Wilson	30 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	380 75		
			610 75	
	Islands Electoral District:			
	Returning Officer, G. Heinekey	$ 200 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	699 74		
			899 74	
	Kamloops Electoral District:			
	Returning Officer, A. B. Hogg	$ 350 00		
	Election Clerk, J. R. Archibald	120 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	2,384 31		
			2,854 31	
	Kaslo Electoral District:			
	Returning Officer, J. W. Bell	$ 200 00		
	Election Clerk, E. B. Nelson	120 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,150 47		
			1,470 47	
	Lillooet Electoral District:			
	Returning Officer, S. Gibbs	$ 200 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,121 16		
			1,321 16	
	Nanaimo Electoral District:			
	Returning Officer, H. C. Shaw	$ 200 00		
	Election Clerk, H. Hickling	40 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	560 99		
			800 99	
	Nelson Electoral District:			
	Returning Officer, J. O'Shea	$ 200 00		
	Election Clerk, G. G. McLaren	80 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	464 96		
			744 96	
	Carried forward		$ 36,073 67	$2,020,543 84

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	STATUTORY EXPENDITURE—*Continued.*			
	"Temperance Plebiscite Act, 1920"—Continued.			
	Brought forward		$ 36,073 67	$2,020,543 84
	Newcastle Electoral District:			
	Returning Officer, D. Gourlay	$ 200 00		
	Election Clerk, W. G. Fraser	70 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	431 45		
			701 45	
	New Westminster Electoral District:			
	Returning Officer, R. B. Brown	$ 300 00		
	Election Clerk, A. Milledge	60 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,135 80		
			1,495 80	
	North Okanagan Electoral District:			
	Returning Officer, D. C. Tuck	$ 250 00		
	Election Clerk, W. P. Kibbler	110 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,461 66		
			1,821 66	
	North Vancouver Electoral District:			
	Returning Officer, T. S. Brown	$ 300 00		
	Election Clerk, D. H. Dick	160 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,625 06		
			2,085 06	
	Omineca Electoral District:			
	Returning Officer, A. J. Ward	$ 250 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	840 69		
			1,090 69	
	Prince Rupert Electoral District:			
	Returning Officer, E. H. Mortimer	$ 400 00		
	Election Clerk, J. McGregor	170 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	6,299 76		
			6,869 76	
	Revelstoke Electoral District:			
	Returning Officer, F. B. Hill	$ 250 00		
	Election Clerk, J. S. Masson	60 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	963 14		
			1,273 14	
	Richmond Electoral District:			
	Returning Officer, A. E. Chamberlain	$ 200 00		
	Election Clerk, H. P. McCraney	100 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	2,355 43		
			2,655 43	
	Rossland Electoral District:			
	Returning Officer, G. Urquhart	$ 200 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	219 28		
			419 28	
	Saanich Electoral District:			
	Returning Officer, N. Whittaker	$ 250 00		
	Election Clerk, A. C. Macdonald	160 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,316 24		
			1,726 24	
	Carried forward		$ 56,212 18	$2,020,543 84

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*				
	STATUTORY EXPENDITURE—*Continued.*				
	"Temperance Plebiscite Act, 1920"—Continued.				
	Brought forward			$ 56,212 18	$2,020,543 84
	Similkameen Electoral District:				
	Returning Officer, P. E. Rowlands	$	250 00		
	Election Clerk, W. H. Huntley		145 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		1,130 28		
				1,525 28	
	Slocan Electoral District:				
	Returning Officer, H. W. Herridge	$	250 00		
	Election Clerk, T. Hebron		50 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		917 60		
				1,217 60	
	South Okanagan Electoral District:				
	Returning Officer, E. J. Maguire	$	250 00		
	Election Clerk, J. M. Millard		25 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		838 30		
				1,113 30	
	South Vancouver Electoral District:				
	Returning Officer, T. J. Russell	$	350 00		
	Election Clerk, A. W. Brett		220 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		3,555 76		
				4,125 76	
	Trail Electoral District:				
	Returning Officer, D. MacDonald	$	250 00		
	Election Clerk, J. H. McDonald		130 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		1,211 58		
				1,591 58	
	Vancouver City Electoral District:				
	Returning Officer, C. L. Merritt	$	800 00		
	Election Clerk, W. D. Balfour		350 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		14,857 88		
				16,007 88	
	Victoria Electoral District:				
	Returning Officer, E. O. Carew Martin	$	500 00		
	Election Clerk, A. Fairfull		200 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		3,908 81		
				4,608 81	
	Yale Electoral District:				
	Returning Officer, A. R. Carrington	$	250 00		
	Election Clerk, W. J. McFadden		45 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		1,764 45		
				2,059 45	
	Total expenditure, "Temperance Plebiscite Act, 1920"				88,461 84
	"Provincial Elections Act, 1920."				
	Administration ($5 939.96):				
	Salaries ($1,608.58):				
	W. W. Baer $1,250 00	E. Grubb	$272 58		
	E. Brown 1 75	V. Josephs	1 75		
	L. P. Collins 75 00	P. Walker	7 50	$ 1,608 58	
	Carried forward			$ 1,608 58	$2,109,005 68

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	STATUTORY EXPENDITURE—*Continued.*			
	"Provincial Elections Act, 1920"—Continued.			
	Brought forward		$ 1,608 58	$2,109,005 68
	Administration—*Continued.*			
	Miscellaneous ($4,331.38): P. Angrignon, $1; F. E. Archer Hardware Co., $13.50; W. W. Baer, $11.80; B.C. Telephone Co., Ltd., $24.45; F. E. Cameron, $2; Canadian Express Co., $5.60; C.P.R. Telegraphs, $412.88; W. H. Cullin, $13; Dominion Express Co., $38.36; Dominion Government Telegraphs, $6.10; G.N.W. Telegraph Co., $47.30; Jeeves Bros. Transfer, $1; King's Printer, $3,491.31; postage, $139.18; Reliable Baggage Co., $10; United Typewriter Co., $10; J. Wilks, $103.90		4,331 38	
	Total, Administration		$ 5,939 96	
	Alberni Electoral District:			
	Returning Officer, G. A. Huff	$ 250 00		
	Election Clerk, J. F. Bledsoe	180 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,194 74		
			1,624 74	
	Atlin Electoral District:			
	Returning Officer, S. Armstrong	$ 200 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,744 19		
			1,944 19	
	Cariboo Electoral District:			
	Returning Officer, W. E. Ekins	$ 300 00		
	Election Clerk, H. P. Hughes	140 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,249 66		
			1,689 66	
	Chilliwack Electoral District:			
	Returning Officer, R. Marshall	$ 250 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	926 14		
			1,176 14	
	Columbia Electoral District:			
	Returning Officer, J. S. Blakely	$ 250 00		
	Election Clerk, A. M. Langlands	60 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	966 42		
			1,276 42	
	Comox Electoral District:			
	Returning Officer, J. J. Wier	$ 250 00		
	Election Clerk, A. MacKinnon	150 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	4,897 91		
			5,297 91	
	Cowichan Electoral District:			
	Returning Officer, E. F. Miller	$ 200 00		
	Election Clerk, H. W. Dickie	110 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.,	834 64		
			1,144 64	
	Cranbrook Electoral District:			
	Returning Officer, C. R. Ward	$ 200 00		
	Election Clerk, F. A. Russell	175 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,096 25		
			1,471 25	
	Carried forward		$ 21 564 91	$2,109,005 68

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY.			
	STATUTORY EXPENDITURE—*Continued.*			
	"Provincial Elections Act, 1920"—Continued.			
	Brought forward		$ 21,564 91	$2,109,005 68
	Delta Electoral District:			
	Returning Officer, F. Hugh	$ 250 00		
	Election Clerk, B. L. Hugh	110 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,702 23		
			2,062 23	
	Delta Electoral District (By-election):			
	Returning Officer, F. Hugh	$ 250 00		
	Election Clerk, B. L. Hugh	110 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,420 21		
			1,780 21	
	Dewdney Electoral District:			
	Returning Officer, H. Ferguson	$ 200 00		
	Election Clerk, T. Paterson	130 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,582 20		
			1,912 20	
	Esquimalt Electoral District:			
	Returning Officer, H. Hearns	$ 200 00		
	Election Clerk, P. J. Sinnott	120 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	910 33		
			1,230 33	
	Fernie Electoral District:			
	Returning Officer, J. McLean	$ 250 00		
	Election Clerk, H. A. Bryant	200 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,756 47		
			2,206 47	
	Fort George Electoral District:			
	Returning Officer, E. S. Peters	$ 350 00		
	Election Clerk, A. Wimbles	170 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	3,926 80		
			4,446 80	
	Grand Forks Electoral District:			
	Returning Officer, P. Donaldson	$ 325 00		
	Election Clerk, C. V. Meggitt	140 00		
	Sundry expenses, Deputy Returning Officers, Poll clerks, etc.	421 80		
			886 80	
	Greenwood Electoral District:			
	Returning Officer, W. Lakeland	$ 200 00		
	Election Clerk, W. C. Wilson	40 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	478 16		
			718 16	
	Islands Electoral District:			
	Returning Officer, G. Heinekey	$ 200 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,424 25		
			1,624 25	
	Kamloops Electoral District:			
	Returning Officer, A. B. Hogg	$ 350 00		
	Election Clerk, R. G. Parker	80 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	2,604 72		
			3,034 72	
	Carried forward		$ 41,467 08	$2,109,005 68

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*				
	STATUTORY EXPENDITURE—*Continued.*				
	"Provincial Elections Act, 1920"—Continued.				
	Brought forward			$ 41,467 08	$2,109,005 68
	Kaslo Electoral District:				
	Returning Officer, A. Taylor	$	325 00		
	Election Clerk, E. B. Nelson		160 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		1,219 20		
				1,704 20	
	Lillooet Electoral District:				
	Returning Officer, S. Gibbs	$	200 00		
	Election Clerk, T. H. Christy		120 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		1,057 33		
				1,377 33	
	Nanaimo Electoral District:				
	Returning Officer, H. C. Shaw	$	200 00		
	Election Clerk, H. Hickling		105 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		745 33		
				1,050 33	
	Nelson Electoral District:				
	Returning Officer, J. F. Hume	$	200 00		
	Election Clerk, G. G. McLaren		85 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		543 27		
				828 27	
	Newcastle Electoral District:				
	Returning Officer, D. Gourlay	$	200 00		
	Election Clerk, R. D. Mitchell		110 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		594 90		
				904 90	
	New Westminster Electoral District:				
	Returning Officer, R. B. Brown	$	300 00		
	Election Clerk, A. Milledge		150 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		1,121 21		
				1,571 21	
	North Okanagan Electoral District:				
	Returning Officer, D. C. Tuck	$	250 00		
	Election Clerk, W. P. Kibbler		165 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		1,650 96		
				2,065 96	
	North Vancouver Electoral District:				
	Returning Officer, D. H. Dick	$	300 00		
	Election Clerk, G. E. Macdonald		260 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		2,013 99		
				2,573 99	
	Omineca Electoral District:				
	Returning Officer, A. J. Ward	$	250 00		
	Election Clerks, R. M. McGregor		30 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		1,036 61		
				1,316 61	
	Prince Rupert Electoral District:				
	Returning Officer, E. H. Mortimer	$	400 00		
	Election Clerk, J. A. Allen		240 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.		7,658 17		
				8,298 17	
	Carried forward			$ 63,158 05	$2,109,005 68

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	STATUTORY EXPENDITURE—*Continued.*			
	"Provincial Elections Act, 1920"—Continued.			
	Brought forward		$ 63,158 05	$2,109,005 68
	Revelstoke Electoral District:			
	Returning Officer, F. B. Hill	$ 125 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	194 17		
			319 17	
	Richmond Electoral District:			
	Returning Officer, A. E. Chamberlain	$ 250 00		
	Election Clerk, A. Grimmett	250 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	3,472 25		
			3,972 25	
	Rossland Electoral District:			
	Returning Officer, T. Embleton	$ 200 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	231 75		
			431 75	
	Saanich Electoral District:			
	Returning Officer, N. W. Whittaker	$ 250 00		
	Election Clerk, A. C. Macdonald	90 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,450 30		
			1,790 30	
	Similkameen Electoral District:			
	Returning Officer, P. E. Rowlands	$ 250 00		
	Election Clerk, R. S. Wilton	160 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,415 95		
			1,825 95	
	Slocan Electoral District:			
	Returning Officer, H. W. Herridge	$ 250 00		
	Election Clerk, R. L. Gore-Langton	130 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,024 55		
			1,404 55	
	South Okanagan Electoral District:			
	Returning Officer, E. J. McGuire	$ 250 00		
	Election Clerk, R. K. Robertson	25 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	859 94		
			1,134 94	
	South Vancouver Electoral District:			
	Returning Officer, W. Cashion	$ 350 00		
	Election Clerk, J. Carney	230 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	3,959 84		
			4,539 84	
	Trail Electoral District:			
	Returning Officer, D. MacDonald	$ 350 00		
	Election Clerk, C. T. Oughtred	250 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,297 94		
			1,897 94	
	Vancouver City Electoral District:			
	Returning Officer, C. L. Merritt	$ 1,500 00		
	Election Clerk, L. A. Menendez	670 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	16,975 92		
			19,145 92	
	Carried forward		$ 99,620 66	$2,109,005 68

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	STATUTORY EXPENDITURE—*Continued.*			
	"Provincial Elections Act, 1920"—Continued.			
	Brought forward		$ 99,620 66	$2,109,005 68
	Victoria Electoral District:			
	Returning Officer, E. O. Carew Martin	$ 750 00		
	Election Clerk, A. Fairfull	250 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.,	4,384 55		
			5,384 55	
	Yale Electoral District:			
	Returning Officer, A. R. Carrington	$ 250 00		
	Election Clerk, P. J. Harris	55 00		
	Sundry expenses, Deputy Returning Officers, Poll Clerks, etc.	1,697 71		
			2,002 71	
	Total expenditure, "Provincial Elections Act, 1920"			107,007 92
	SPECIAL WARRANT No. 33.			
	Advances to Permanent Members of the Civil Service for the Purpose of purchasing fuel:			
	Nil			
	SPECIAL WARRANT No. 47.			
	To provide for an Amount to be advanced to Police Officers of the Government of the Crown Colony of Hong Kong for Expenses while awaiting Transportation:			
	Nil			
	Total expenditure, Department of the Provincial Secretary			$2,216,013 60
	DEPARTMENT OF PUBLIC WORKS.			
243.	MINISTER'S OFFICE.			
	Salaries ($7,918):			
	Minister of Public Works ....Hon. J. H. King		$ 6,250 00	
	Secretary (12 days) ....J. Brechin		68 00	
	Secretary ....A. Straith		1,600 00	
			$ 7,918 00	
	Expenses ($2,758.68):			
	Office Supplies, etc.:			
	B.C. Financial Times, $2; B.C. Telephone Co., Ltd., $133.85; Canadian Annual Review, $6.29; C.P.R. Co., $163.40; Colonist P. & P. Co., Ltd., $12; Dominion Express Co., $2.20; Dominion Government Telegraphs, $1.02; G.N.W. Telegraph Co., $29.18; Henderson Directory Co., $8; King's Printer, $295.51; News Publishing Co., $6; postage, $80.18; Revelstoke Review, $2.50; Times P. & P. Co., Ltd., $12; Vancouver Province, $4; Wrigley Directories, Ltd., $10		768 13	
	Travelling Expenses:			
	Hon. J. H. King, $1,837.50; A. Straith, $153.05		1,990 55	
	Total expenditure, Minister's Office			$ 10,676 68
	Carried forward			$ 10,676 68

No. of Vote.	SERVICE.	Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*	
	Brought forward	$ 10,676 68
244.	ADMINISTRATION.	
	Salaries ($54,101.68):	
	Deputy Minister ..... J. E. Griffith	$ 4,000 00
	Public Works Engineers:	
	A. E. Foreman (7 mos.) ..... $2,916 62 P. Philip (3 mos.) $1,000 00	3,916 62
	Asst. Public Works Engineer .... G. P. Napier	3,240 00
	Draughting Office.	
	Office Engineer ..... F. L. Macpherson	3,120 00
	Chief Draughtsman ..... H. M. Bigwood	2,100 00
	Draughtsmen:	
	G. M. Duncan ..... $2,100 00 C. K. Saunders $1,800 00	3,900 00
	Draughtsman (Junior) ..... H. G. Shepherd	1,200 00
	Architect's Office.	
	Supervising Architect ..... H. Whittaker	2,880 00
	Assistant Supervising Architect ... W. Middleton	2,100 00
	Draughtsman ..... G. S. Ford	1,720 00
	Accountant's Office.	
	Chief Clerk and Accountant ..... A. Hood	2,760 00
	Assistant Accountant ..... H. W. Edwardson	1,780 00
	Clerks:	
	W. C. Ard ..... $1,452 00 M. B. Lloyd $1,452 00	
	E. Cave ..... 1,720 00 W. G. M. Rolston .. $1,620 00	6,244 00
	General Office.	
	Senior Clerk ..... D. C. Hughes	1,720 00
	Clerk (filing) ..... H. A. Howell	1,500 00
	Clerks (Junior):	
	R. Butler ..... $523 50 J. J. MacCreadie $720 00	1,243 50
	Stenographers:	
	N. M. Davies ..... $755 00 S. McIntyre $400 00	
	A. Finlayson ..... 990 00 A. M. Peddle 90 00	
	M. Fulton ..... 635 71 B. L. Smith 1,020 00	
	F. G. Kenney 817 10	4,707 81
	Temporary Assistance:	
	M. Bourke ..... $140 83 M. Moffatt $261 25	
	C. C. Carey ..... 266 84 H. M. Russell 75 83	
	M. A. Lucas ..... 60 00 K. M. Ward 65 00	869 75
	Superintendent of Bridges and Buildings.	
	T. Kilpatrick	3,000 00
	Mechanical Superintendent.	
	J. Armstrong	2,100 00
		$ 54,101 68
	Expenses ($10,488.85):	
	Office Supplies, etc.:	
	American Institute of Architects, 78c.; B.C. Telephone Co., $244.72; Canadian Engineer, $3; Canadian Express Co., 40c.; C.P.R. Co., $705.82; Dominion Express Co., $8.75; Dominion Government Telegraphs, $8.80; Drake Hardware Co., $2.13; Electric B. P. & Map Co., $114.10; Engineering News-Record, $7; G.N.W. Telegraphs, $156.04; E. S. Harris, $4.50; Henderson Directory Co., $32; T. N. Hibben & Co., $47.75; King's Printer, $4,087.69; Little & Taylor, $2.50; Macey Office Equipment Co., $546.35; Mines Department, $6.15; J. Morrison, $3; A. O'Rourke, 72c.; postage, $877.20; E. G. Prior & Co., Ltd., 35c.; Reliable Messenger Co., $1; Scientific American Publish-	
	Carried forward	$ 54,101 68 $ 10,676 68

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
244.	ADMINISTRATION—*Continued.*		
	Brought forward	$ 54,101 68	$ 10,676 68
	Expenses—*Continued.*		
	Office Supplies, etc.—*Continued.*		
	ing Co., $5.75; Smith & Champion, $67.50; United Typewriter Co., Ltd., $105.75; Victoria Typewriter Exchange, $2.50; Waites & Knapton, $4.75; Western Canadian Motorist, $2; W. H. Wilkerson, $1.75; Wrigley Directories, Ltd., $50	7,100 75	
	Travelling Expenses:		
	H. M. Bigwood, $53.70; G. S. Ford, $64.99; A. E. Foreman, $1,076.82; J. E. Griffith, $271.15; A. E. Hodgins, $22; A. Hood, $56.85; W. Middleton, $537.87; G. P. Napier, $26.45; P. Philip, $384.13; H. Whittaker, $894.14	3,388 10	
	Total expenditure, Administration		64,590 53
245.	MAINTENANCE OF PARLIAMENT BUILDINGS AND GROUNDS.		
	Salaries ($56,204):		
	Telegraph Office.		
	Operator ..... A. E. Starr	$ 1,200 00	
	Messenger ..... A. Sargent	540 00	
	Garage.		
	Chauffeur-Mechanic ..... F. Cocker	1,092 42	
	Boiler-room.		
	Engineer ..... A. Manson	1,860 00	
	First Assistant Engineer ..... J. H. Eccles	1,590 00	
	Second Assistant Engineer ..... C. Costello	1,380 00	
	Third Assistant Engineer ..... A. Johnston	1,380 00	
	Assistant Engineer ..... T. Briggs	757 00	
	Electricians:		
	W. H. Creech ..... $1,237 41 C. W. Jordan (3 mos.) $420 00	1,657 41	
	Plumber ..... A. Milligan	1,620 00	
	Carpenter-shop.		
	Head Carpenter ..... W. Tyson	1,500 00	
	Carpenters:		
	J. W. Ball ..... $1,440 00 W. A. Davis $1,080 00		
	S. H. Brake ..... 240 00 J. A. Miller 120 00	2,880 00	
	Janitors.		
	Chief Janitor ..... A. Brakes	1,600 00	
	Janitors:		
	H. Andrews ..... $1,170 00 J. T. Henley $1,200 00		
	W. H. Bailey ..... 1,200 00 G. Leonard 1,170 00		
	J. M. Bella ..... 380 00 R. Lewis 1,200 00		
	J. Boyd ..... 22 25 J. Miller 18 38		
	F. D. Cameron ..... 1,200 00 M. H. McCabe 1,078 79		
	F. Carne ..... 1,170 00 J. Naysmith 1,200 00		
	D. Cook ..... 1,067 67 J. A. Phillips 128 74		
	W. Corfield ..... 1,140 00 T. Prior 1,170 00		
	J. E. Curtis ..... 1,200 00 W. Riley 1,200 00		
	A. Davies ..... 1,200 00 D. Sellick 811 20		
	C. R. Davies ..... 1,200 00 H. J. Steverson 1,200 00		
	P. J. Davies ..... 1,140 00 F. M. Tatham 1,320 00		
	H. Edwards ..... 570 00 R. E. Thomas 1,170 00		
	A. V. Elmhurst ..... 1,170 00 G. Whitfield 1,140 00		
	T. Gillan ..... 576 34 A. C. Wilson 1,200 00	29,613 37	
	Watchmen:		
	W. Middleton ..... $1,170 00 E. Smith ..... $ 950 00		
	E. J. Seymour ..... 1,208 00 H. W. Taylor 1,140 00	4,468 00	
	Carried forward	$ 53,138 20	$ 75,267 21

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF PUBLIC WORKS—*Continued.*

245. MAINTENANCE OF PARLIAMENT BUILDINGS AND GROUNDS—*Continued.*

Brought forward ..... $ 53,138 20 $ 75,267 21

Salaries—*Continued.*

Janitors—Continued.

Usher .....H. H. Nash 1,200 00

Assistant Ushers:
C. W. Davies .....$180 00 J. Donaldson $245 80 425 80

Grounds.

Chief Gardener .....J. B. Partington 1,440 00

$ 56,204 00

Expenses ($64,924.16):
Fuel, Light, and Water:
B.C.E.R. Co., Ltd., $3,882.42; Carter Electric Co., Ltd., $50; Direct Supply Assn., $32.82; Hawkins & Hayward, $972.84; King's Printer, $8; J. E. Painter & Sons, $141.50; Times P. & P. Co., Ltd., $38; Victoria Fuel Co., Ltd., $21,170.51; Victoria Gas Co., Ltd., $8.62; Victoria Water Works, $1,372.68; S. C. Weston, $83.50 ..... 27,760 89

Maintenance and Repairs of Building:
Albion Stove Works, Ltd., $2.75; J. Allen, $49.95; R. Angus, $171.19; Arco Co., $262.50; B.A. Paint Co., Ltd., $813.74; B.C.E.R. Co., Ltd., $64.50; B.C. Saddlery Co., Ltd., $4.95; B.C. Telephone Co., $238.53; Canadian Fairbanks-Morse Co., Ltd., $7.71; Canadian General Electric Co., Ltd., $13.56; C.P.R. Co., $36.54; Carter Electric Co., Ltd., $1,158.93; Collector of Customs, $6.38; Cope & Son, Ltd., $991.62; Direct Supply Association, $64.07; H. L. Doidge, $176; Dominion Express Co., $1.15; Drake Hardware Co., Ltd., $11.70; E. B. Eddy Co., Ltd., $9.56; Electric B. P. & Map Co., $16; Elevator Supplies Co., $4.80; Empress Garage, 44c.; Esquimalt and Nanaimo Railway, $74.86; Evans, Coleman & Evans, Ltd., $788.14; W. S. Fraser & Co., Ltd., $666.87; Gordon & Belyea, Ltd., $39.22; Great Western Junk Co., $15; Hafer Machine Co., Ltd., $13.65; Hawkins & Hayward, $52.81; J. Heaney, $7.75; Hickman-Tye Hardware Co., Ltd., $27.75; R. Home, $10; King's Printer, $6; S. Leiser & Co., Ltd., $31.10; Lemon-Gonnason Co., Ltd., $1,077.89; Lofts & Bosustow, $9.30; Macey-Abell Co., Ltd., $710; E. B. Marvin & Co., $390.31; Maywood Garage, $42.25; Mellor Bros., Ltd., $143.58; Melrose Co., Ltd., $40.24; Mitchell Bros., $1; J. Morrison, $4.40; McKenzie Furnace Co., $185.38; W. B. McMicking, $60; McTavish Bros., $27.43; Nanaimo Metal Co., $52; National Drug & Chemical Co., Ltd., $1.90; Northern Electric Co., Ltd., $1,829.63; Otis-Fensom Elevator Co., Ltd., $170; Pacific Sheet Metal Works, $148.76; T. Plimley, $2.25; G. Powell & Sons, $13.50; A. E. Price, $1.50; E. G. Prior & Co., Ltd., $244; Producers Rock & Gravel Co., $236.35; Reliable Transfer Co., $111.54; G. Rigby, $320.17; R. P. Rithet & Co., Ltd., $1.90; A. Sheret, $463.60; Smith & Champion, $51.40; Ship Chandlers, Ltd., 38c.; D. Spencer, Ltd., $9.88; Stapleton & Carter, Ltd., $86.98; J. Steinnetz & Sons, $18.24; Turner Beeton & Co., Ltd., $17.37; W. Tyson, $5.44;

Carried forward ..... $ 83,964 89 $ 75,267 21

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
245.	MAINTENANCE OF PARLIAMENT BUILDINGS AND GROUNDS—*Continued.*		
	Brought forward	$ 83,964 89	$ 75,267 21
	Expenses—*Continued.*		
	Maintenance and Repairs of Building—*Continued.*		
	Victoria Gas Co., Ltd., $235; Victoria Hardware Co., $12.50; Victoria Machinery Depot, $37.11; Waites & Knapton, $5.25; C. White, $6; pay-list, labour, $10,024.55	$ 22,638 70	
	By cash	2,204 68	
		20,434 02	
	Gardening and Grounds, including Statue: J. Anderson, $77.85; Armstrong Bros., $38.65; H. Birks & Sons, Ltd., $118.95; B. & K. Milling Co., Ltd., $5.50; Brown's Nurseries, Ltd., $523.25; P. Burns & Co., Ltd., $86.30; B. R. Cant & Sons, $114.80; Carver & McFadyen, $1.70; R. Dinsdale, $93.75; Dominion Express Co., $6.30; Dominion Rubber System, $110.24; Evans, Coleman & Evans, Ltd., $136.29; W. S. Fraser & Co., Ltd., $99.76; J. Hamilton, $16.50; J. Heaney, $64.25; F. Jeune & Bro., Ltd., $126.50; W. Kirkpatrick, Ltd., $613.53; Lemon-Gonnason Co., Ltd., $145.39; E. B. Marvin, $36.61; F. Mellor, $4.25; Melrose Co., Ltd., $2.20; McTavish Bros., $30.90; E. G. Prior & Co., Ltd., $1.19; Producers Rock & Gravel Co., Ltd., $32.10; Reliable Transfer Co., $16.25; J. Richards, $48; J. J. Ross, $16; D. Spencer, Ltd., $7.75; S. Taylor & Co., $71.86; Victoria Corporation, $2.32; H. M. Wilson, $55; pay-list, labour, $5,422	8,125 94	
	Pictures of Their Majesties the King and Queen: V. A. Long	1,700 00	
	Scavenging, Cleaning, and Janitors' Supplies: J. Anderson, $405.90; W. Carter, $74.74; Carter Electric Co., Ltd., $6; Dominion Express Co., 80c.; W. F. Drysdale, $3.60; T. U. Durand, $82.54; E. B. Eddy Co., Ltd., $1,037.91; Gault Bros., Ltd., $40.73; Hawkins & Hayward, $12.72; King's Printer, $40; S. Leiser & Co., Ltd., $19.46; Little & Taylor, $20; Mitchell Bros., $170.55; National Drug & Chemical Co., Ltd., $7.50; W. J. Pendray & Sons, Ltd., $172.47; Reliable Transfer Co., $2.05; R. P. Rithet & Co., Ltd., $32.68; Ship Chandlers, Ltd., $8.60; Turner Beeton & Co., Ltd., $105.39; Victoria Steam Laundry, $38.48; Weiler Bros., Ltd., $39.46; West Disinfecting Co., $51; B. Wilson Co., Ltd., $37.10	2,409 68	
	Telephones: B.C. Telephone Co.	343 57	
	Taxes: City of Victoria (exclusive of any general taxes)	1,040 16	
	Garage: Armstrong Bros., $24.05; R. Bensen, $426.35; Burgess Bros., $8.25; A. Burrows, $76; Canadian Fairbanks-Morse Co., Ltd., $112.78; F. Cocker, $91.20; Cox & Perkins, $26.25; H. A. Davie, Ltd., $591.78; Dominion Rubber System, Ltd., $3.53; Drake Hardware Co., Ltd., $28.44; Ford Garage, $5.70; H. J. Holman, $519.31; Imperial Oil, Ltd., $614.84; Jameson & Willis, $5.55; licences, $55.20; E. B. Marvin & Co., $74.63; J. Meston & Co., Ltd., $10.50; Morley-Pauline Rubber Co., $9; W. J. Pendray & Sons, Ltd., $7.26; T. Plimley, $75.67; E. G. Prior & Co., Ltd., $42.50; Reliable Transfer Co., $3.75; Sanders Auto Top Co., $15; A. Sheret, $49.72; Smith, Robinson & Co., $6.81; A. J. Stevenson, $2.60	2,886 67	
	Miscellaneous: Colonist P. & P. Co., $12; King's Printer, $52.60; F. McLernan, $13.55; Victoria Corporation, $145.08	223 23	
	Total expenditure, Maintenance of Parliament Buildings and Grounds		121,128 16
	Carried forward		$ 196,395 37

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
	Brought forward			$ 196,395 37
246.	MAINTENANCE OF GOVERNMENT HOUSE AND GROUNDS.			
	Salaries ($3,615):			
	Private Secretary ..... H. J. S. Muskett		$ 2,400 00	
	Chief Gardener ..... E. Barlow		1,200 00	
	Stenographers:			
	S. McIntyre ..... $12 50 L. Stewart $2 50		15 00	
			$ 3,615 00	
	Expenses ($17,175.11):			
	Fuel, Light, and Water:			
	B.C.E.R. Co., $655.60; King's Printer, $10.35; Mackay & Gillespie, Ltd., $1,841.98; Times P. & P. Co., Ltd., $8; Victoria Gas Co., Ltd., $358; Victoria Water Works, $342.77; S. C. Weston, $5.25		3,221 95	
	Maintenance, Repairs, and Furniture:			
	W. J. Anderson, $93.50; A. N. Awed, $45; H. Bailey, $56.25; B.A. Paint Co., Ltd., $18.48; B.C.E.R. Co., $10.24; B.C. Telephone Co., $279.65; Carter Electric Co., Ltd., $19.37; W. H. Creech, 70c.; A. Davis, $7.50; Evans, Coleman & Evans, Ltd., $65.10; W. S. Fraser & Co., Ltd., $53.02; Gillespie, Hart & Todd, Ltd., $100; R. Hall & Sons, $100; Hawkins & Hayward, $95.64; Lemon-Gonnason Co., Ltd., $185.46; Luney Bros., Ltd., $19.50; E. B. Marvin & Co., $16.34; Melrose Co., Ltd., $29.33; A. Milligan, $1.14; J. Morrison, $4.40; Pacific Sheet Metal Works, Ltd., $8.85; E. G. Prior & Co., Ltd., $20.78; Producers Rock & Gravel Co., Ltd., $7.95; Public Works Department, $381.38; Reliable Transfer Co., $24.75; J. Richards, $28; A. Sheret, $590.93; Smith & Champion, $415.18; J. Sommer & Sons, Ltd., $4.20; D. Spencer, Ltd., $7.80; W. Tyson, $4.18; Victoria Machinery Depot, Ltd., $82.37; Waites & Knapton, $2.75; H. E. Waterman, $15; Weiler Bros., Ltd., $628.75; W. T. Williams, $240; A. & W. Wilson, $4.02; pay-list, labour, $405.38		4,072 89	
	Gardening and Grounds:			
	B. & K. Milling Co., Ltd., $53.20; B.C. Equip. Co., Ltd., $666.60; B.C. Sheet Metal Works, $4.80; Brown's Victoria Nurseries, Ltd., $11.50; Carter Electric Co., Ltd., $4.80; W. S. Fraser & Co., Ltd., $206.47; J. Hamilton, $11; Hawkins & Hayward, $11.30; Lemon-Gonnason Co., Ltd., $107.20; Mellor Bros., Ltd., $2.50; Moore-Whittington Lumber Co., Ltd., $156.55; National Drug & Chemical Co. of Canada, Ltd., $2.75; H. Osgood, $3; Public Works Department, $150.80; Reliable Transfer, $3; J. Richards, $249; A. Sheret, $2.70; Staneland Co., Ltd., $20.02; Vancouver Milling & Grain Co., Ltd., $7; Victoria Gas Co., Ltd., $75; Victoria Water Works, $29.24; pay-list, labour, $6,940		8,718 43	
	Ground-rent and Taxes:			
	B.C. Land & Investment Agency, Ltd., $48.50; City of Victoria, $400.78		449 28	
	Miscellaneous:			
	J. Anderson, $39.80; C.P.R. Telegraphs, $40.77; City of Victoria, $17.86; Colonist P. & P. Co., Ltd., $54.40; Dominion Rubber System (Pacific), Ltd., $32.07; Drake Hardware Co., Ltd., 80c.; G.N.W. Telegraph Co., $34.93; T. N. Hibben & Co., $12.25; F. Jeune & Bro., Ltd., $24.75; King's Printer, $290.40; Mitchell & Duncan, Ltd., $1.50; H. J. S. Muskett, $51.30; W. Neal, $9; postage, $86; Reliable Messenger & Delivery Co., 25c.; Reliable Transfer Co., $1; Victoria Book & Stationery Co.,			
	Carried forward		$ 20,077 55	$ 196,395 37

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF PUBLIC WORKS—*Continued.*

246. MAINTENANCE OF GOVERNMENT HOUSE AND GROUNDS—*Continued.*

Brought forward	$ 20,077 55	$ 196,395 37
Expenses—*Continued.*		
Miscellaneous—*Continued.*		
Ltd., $10.60; Victoria Scavenging Co., $1.50; Weiler Bros., Ltd., $3.38; Wrigley Directories, Ltd., $10	722 56	
	$ 20,800 11	
By cash	10 00	
Total expenditure, Maintenance of Government House and Grounds		20,790 11

247. DISTRICT ENGINEERS.

Salaries ($39,120.43):					
Engineers:					
J. C. Brady	$2,880 00	G. C. Mackay	$2,310 00		
A. L. Carruthers	3,000 00	P. Philip	2,250 00		
A. Dixon	3,000 00	W. Ramsay	3,000 00		
W. K. Gwyer	3,000 00	G. B. Whitehead	2,880 00		
A. E. Hodgins	3,000 00			$ 25,320 00	
Draughtsman		G. Fox		375 00	
Clerks:					
T. Baxter	$1,200 00	N. McNicol	$1,500 00		
A. R. D. Beatson	62 50	D. E. Nott	264 79		
R. Cullen	1,500 00	M. Steele	338 06		
J. P. Davis	1,200 00	A. K. Stuart	250 00		
R. F. Davis	375 00	R. Stuart	1,500 00		
E. W. Griffith	1,250 00	D. M. Sworder	640 00		
R. Lindblad	357 50	H. Wood	1,500 00		
H. P. Mole	1,068 33			13,006 18	
Stenographers:					
A. Anderson	$127 50	I. L. Smith	$31 75		
D. Chalmers	260 00			419 25	
				$ 39,120 43	

Expenses ($22,282):

Office Supplies, etc.:

Albert & McCaffery, Ltd., $100; J. H. Allen, $3; C. H. Allison, $3.65; W. G. Barrie, $2; Beattie-Noble, Ltd., $8.15; E. V. Bergin, $6; Big Bay Lumber Co., Ltd., 84c.; B.C. Telephone Co., $693.50; R. P. Brown, $40.50; B.C. Express Co., $29.45; J. Burns & Son, $5; Canada Drug & Book Co., $2; Canadian Express Co., $39.11; Canadian National Railways, $2.78; C.P.R. Telegraphs, $274.68; A. L. Carruthers, $1.10; Canada Drug & Book Co., $6.80; City Cartage & Transfer Co., $1.50; City Drug & Stationery Co., $4.80; City Transfer & Warehouse Co., $19.50; Clarke & Stuart Co., Ltd., $66.77; Cow Bay Tank & Sheet Metal Works, $5; Cowan Supply Co., $43.68; Cranbrook Cartage & Transfer Co., $75.98; Cranbrook Electric Light Co., $20.90; Dominion Express Co., $44.85; Dominion Government Telegraphs, $417.26; P. Drozda, $6; Dufresne & Whitaker, $145.60; A. E. Edge Co., $3.25; Electric Blue Print & Map Co., $509.95; Electric Supply Shop, $15.75; I. Evans, $9; E. Ewing, $4.75; Fort George & Alberta Telephone Co., $72; Fort George Drug Co., $2.25; J. A. Fraser, Ltd., $29.25; J. L. Gordon, $58; Goodwin Stage Co., $2.75; Gore Blue Print Co., 30c.; G.T.P. Telegraphs, $304.24; Green Bros., Burden & Co., $7.25; Harrison & Co., $28.85; J. Hazlett, $51; G. H. Hewitt Co., Ltd., $4.20; Houghton & Evans, $2.60; Howe & McNulty, $25.95; Inland Express Co., $10.61; A. W. Jervis, $5.97; A. Johnson, $36; Kaien Hardware Co., 50c.; W. R. King & Co., $33.50; King's Printer, $2,009.01; Kootenay Telephone Lines, Ltd., $73.26; G. E. Kraus, $4; Lands Department, $6.30;

Carried forward	$ 39,120 43	$ 217,185 48

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
247.	DISTRICT ENGINEERS—*Continued.*			
	Brought forward		$ 39,120 43	$ 217,185 48
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	C. Lattmann, $2.50; J. A. Lazzerin, $5.43; Leith Bros., $16.25; R. E. Lodwick, $20; Macey-Abell Co., Ltd., $212.10; A. Michael, $3; J. R. Mitchell, $420; W. F. Montgomery, $6; H. B. Morley & Co., Ltd., $4.40; McLennan, McFeely & Co., Ltd., $4.44; McRae Bros., Ltd., $19.45; National Drug & Chemical Co., Ltd., $15.70; Nelson Gun, Lock, & Cycle Works, $3; Nelson Hardware Co., $10.80; Northern Hardware Co., $12.15; Okanagan Telephone Co., $138.10; W. N. O'Neill Co., Ltd., $1.82; Ormes, Ltd., $1.80; Pacific Cartage Ltd., $20.38; Parkin & Ward Electric Co., $6.25; F. Parks & Co., $6.20; R. Parmley, $31.80; Penticton Dept. Stores, $8.35; Penticton Electric Co., $29.05; M. Poquette, $3.75; postage, $861.50; J. E. Price, $83; Prince George Drug Co., $5.50; Prince George Light Department, $11.75; Prince Rupert Light & Power Department, $57.78; Prince Rupert City Telephone, $56; Quesnel Telephone Co., Ltd., $13.70; P. J. Rahal, $1; Remington Typewriter Co., Ltd., $303.25; Rush Transfer & Storage Co., $12.31; J. Simonson, $12.20; Standard Furniture Co., $18; L. Stocks, $2.55; F. Stork, $2.15; R. Stuart, $2.55; A. C. Taylor & Co., 60c.; J. & J. Taylor, Ltd., $1; F. C. Tingley, $16; E. D. Todd, $120; T. J. Trapp & Co., Ltd., $28.05; United Typewriter Co., Ltd., $160.85; E. H. Verner, $40; Victoria Book & Stationery Co., Ltd., $142.23; West Transfer Co., $3.06; Western Specialty, Ltd., $3.80; Wilcox-Hall Co., Ltd., $1.75; G. B. Williams, $9.40; F. S. Wright, $5; Wright Bros., $69; Wrigley Directories, Ltd., $90; Yorkshire & Canadian Trust, Ltd., $55		8,572 59	
	Travelling Expenses:			
	J. C. Brady, $1,228.37; A. L. Carruthers, $914.85; A. Dixon, $1,944.04; W. K. Gwyer, $1,565.68; A. E. Hodgins, $1,150.27; G. C. Mackay, $2,108.54; P. Philip, $1,390.97; W. Ramsay, $1,353.94; E. D. Todd, $184.72; G. B. Whitehead, $1,868.03..		13,709.41	
	Total expenditure, District Engineers			61,402 43
248.	STEAM-BOILER INSPECTION.			
	Salaries ($41,977.68):			
	Chief Inspector ..... J. Peck		$ 4,020 00	
	Inspectors:			
	F. Bath $2,700 00	L. Duckett $2,640 00		
	S. Baxter 3,120 00	J. D. Kay 3,000 00		
	A. S. Bennett 2,760 00	G. O. Madigan 3,120 00		
	F. Biggam 2,700 00	J. O'Neill 1,353 34		
	J. Clark 2,580 00	A. Sutherland 3,060 00		
	J. Davidson 2,400 00	J. B. Tait $2,520 00	31,953 34	
	Clerk ..... W. A. Bond		1,260 00	
	Stenographers:			
	O. G. Archibald $266 13	A. B. Mann $840 00		
	F. Coupland 904 00	M. Moffat 192 90		
	R. G. Eddy 532 58	E. Thomas 870 00	3,605 61	
	Engineers (Launch):			
	F. A. Cox $420 01	J. H. Wilson $635 92		
	N. Thompson 82 80	.....	1,138 73	
			$ 41,977 68	
	Expenses ($12,738.06):			
	Office Supplies, etc.:			
	Belyea & Co., $2.10; B.C. Technical Book Co., $58.60; B.C. Telephone Co., Ltd., $273.38; Burr Office Supplies, $2.92; C.P.R. Telegraphs, $28.15; Colonist Printing & Publishing Co.,			
	Carried forward		$ 41,977 68	$ 278,587 91

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
248.	STEAM-BOILER INSPECTION—*Continued.*			
	Brought forward		$ 41,977 68	$ 278,587 91
	Expenses—*Continued.*			
	Office Supplies, etc.—*Continued.*			
	Ltd., $1.80; Columbian Co., Ltd., $4.32; Cranbrook Courier, $2.88; D. S. Curtis & Co., 75c.; Dominion of Canada Guarantee & Accident Insurance Co., $16.25; Dominion Express Co., $48.75; Dominion Government Telegraphs, $1.32; Electric Supply & Contracting Co., Ltd., $180.90; G.N.W. Telegraph Co., 86c.; King's Printer, $1,612.40; C. Moulton, $23.15; News Publishing Co., Ltd., $3; News Printing & Publishing Co., Ltd., $4.80; postage, $554.54; Revelstoke Review Publishing Co., $3.75; R. P. Rithet & Co., Ltd., $1.11; G. A. Roedde, Ltd., $198.47; Royal City Glass Co., $17; Times Printing & Publishing Co., Ltd., $3; United Typewriter Co., Ltd., $15; Vancouver Daily Province, $3.45; Vancouver Engineering Works, Ltd., $54.50; Vulcan Iron Works, $8; Weiler Bros., Ltd., $2; A. C. Williamson, $49; Wrigley Directories, Ltd., $10		3,186 15	
	Travelling Expenses:			
	F. Bath, $156.91; S. Baxter, $818.15; A. S. Bennett, $385.66; F. Biggam, $217.43; J. Clark, $765.90; J. Davidson, $1,427.76; L. Duckett, $1,145.35; J. D. Kay, $22.55; G. O. Madigan, $80.23; J. O'Neill, $84.43; J. Peck, $378.14; A. Sutherland, $826; J. B. Tait, $698.45		7,006 96	
	Launch (Maintenance and Supplies):			
	A. & C. Grocery, $73.49; Anderson & Lusby, $7.90; Battery House, Ltd., $1.52; Beaver Cove Lumber & Pulp Co., Ltd., $19.75; Belyea & Co., Ltd., $3; B.C. Packers' Association, $103.10; Burrard Tug & Towing Co., 75c.; Campbell Logging Co., 95c.; Chappel Bros., $17.25; Collector of Customs, $6.75; Cormack & Annand, $133.54; F. A. Cox, $12.60; Cunningham Hardware, $67.02; D. S. Curtis & Co., $17; Deceit Bay Cannery, $1.30; W. J. Dunseith, $24.20; Fairbanks-Morse Co., $10.60; Gilley Bros., Ltd., $3.45; Gonsalves & Dames, $3.85; Hanson Logging Co., 85c.; Imperial Oil, Ltd., $445.63; Irish Linen Store, $3; W. R. Jaynes, $3; A. W. LePage Gasoline Engine & Supply Co., $31.40; Matheson & Jacobson, $81.92; Merchants, Ltd., $4; C. C. Moore & Co., $25.26; J. Moore, 50c.; C. Moulton, $12.05; P. McDonald, $27.30; — McKee, $4.50; Pacific Lime Co., Ltd., $7.10; Powell River Co., Ltd., $52.90; Quathiaski Canning Co., $10.10; Royal City Laundry, $5.37; Shoal Bay Store, 95c.; Simson, Balkwill & Co., $52.75; C. C. Snowdon, $8.15; Star Shipyard Co., $601.05; T. D. Sutherland, $66.02; N. Thompson, $16.15; T. J. Trapp & Co., Ltd., $14.90; W. Turner, $60; Vancouver Engineering Works, Ltd., $277.35; Wallace Fisheries, Ltd., $15.05; Westminster Iron Works, $14.78; J. H. Wilson, $120.80; J. W. Workin, $23.50; Yates & Co., $11.50		2,505 85	
	Testing Instruments, Chemicals, etc.:			
	Collector of Customs, $4.40; Computer Manufacturing Co., $3.42; D. S. Curtis & Co., 75c.; Martin, Finlayson & Mather, $4; C. Moulton, $6.75; T. H. Smith Co., Ltd., $3.48; T. J. Trapp & Co., Ltd., $3.90; Vancouver Machinery Depot, Ltd., $12.40		39 10	
	Total expenditure, Steam-boiler Inspection			54,715 74
249.	"ELECTRICAL ENERGY INSPECTION ACT."			
	Salaries ($5,331.85):			
	Inspector ..... J. Muirhead		$ 2,880 00	
	Assistant Inspector ..... H. L. Taylor		2,100 00	
	Stenographers:			
	A. Anderson $105 00	F. Leyster $21 00		
	E. M. Collins 5 85	M. McLeod 25 00		
	K. E. Hughes 195 00	.....	351 85	
	Carried forward		$ 5,331 85	$ 333,303 65

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
249.	"ELECTRICAL ENERGY INSPECTION ACT"—*Continued.*		
	Brought forward	$ 5,331 85	$ 333,303 65
	Expenses ($1,926.44):		
	Office Supplies, etc.:		
	B.C. Telephone Co., Ltd., $11.03; Canadian Electrical Association, $12.80; C.P.R. Telegraphs, $17.46; Canadian Westinghouse Co., Ltd., $45; Clarke & Stuart Co., Ltd., $20.25; Journal of Electricity, $3.25; King's Printer, $146.33; H. C. MacLean, Ltd., $4; Office Specialty Co., Ltd., $95.88; postage, $41.50; Progress Publishing Co., Ltd., $3; Smith, Robinson & Co., $2.50; United Typewriter Co., Ltd., $158.50; Vancouver Association of Electrical Contractors, $6.50; Vancouver Map & Blue Print Co., $1.70; Wrigley Directories, Ltd., $10	579 70	
	Travelling Expenses:		
	J. Muirhead, $441.84; H. L. Taylor, $904.90	1,346 74	
	Total expenditure, "Electrical Energy Inspection Act"		7,258 29
250.	"FACTORIES ACT."		
	Salaries ($6,060):		
	Inspector .....R. J. Stewart	$ 2,640 00	
	Assistant Inspectors:		
	J. Dickinson .....$1,200 00 H. Douglas $2,220 00	3,420 00	
		$ 6,060 00	
	Expenses ($2,509.80):		
	Office Supplies, etc.:		
	B.C. Telephone Co., Ltd., $7.26; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Dominion Express Co., $4.05; Graham Electrical Co., $20.73; G.N.W. Telegraph Co., 47c.; Ireland & Allen, $1.40; King's Printer, $180.42; Numerical Tel. Locator Co., $1; Pacific Coast Lumberman, $2; postage, $95; Progress Publishing Co., Ltd., $3	317 83	
	Travelling Expenses:		
	H. Douglas, $1,021.70; R. J. Stewart, $1,170.27	2,191 97	
	Total expenditure, "Factories Act"		8,569 80
251.	ROADS, STREETS, BRIDGES, AND WHARVES.		
	Alberni District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	Assistant District Engineer, W. P. Beavan, salary $2,280, expenses $1,439.74		
	Road Foreman, M. M. Stephens, salary $54, expenses $8.80		
	Stenographers:		
	E. C. Croll, salary $69; M. Griffin, salary $621.83		
	Pay-lists, labour and team-work, $47,027.40		
	Miscellaneous:		
	E. W. Adams, $19.50; Alberni Garage, $90.90; Alberni Hardware Co., $8.40; Alberni Pacific Lumber Co., $22.14; Albion Stove Works, Ltd., $72.53; C. S. Askew, $13.50; Bainbridge Lumber Co., Ltd., $54.60; O. Battye, $48.60; P. Bennett, $31.98; F. Brand, $139.42; Brennan Lake Lumber Co., $40.89; B.C. Cement Co., Ltd., $228.25; B.C. Telephone Co., Ltd., $103.65; J. J. Burke, $38; M. Campbell, $45; Canadian Bank of Commerce, $59.40; Canadian Explosives, Ltd., $646.62; C.P.R. Telegraphs, $1.55; City of Alberni, $9.85; J. Clegg, $5; E. Coleman, $59.50;		
	Carried forward		$ 349,131 74

No. of Vote.	SERVICE.	Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*	
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*	
	Alberni District—Continued.	
	Brought forward	$ 349,131 74

Roads and Streets—*Continued.*
Maintenance and Repairs—*Continued.*
Miscellaneous—*Continued.*

Custance & Co., $88.12; A. D. Darlington, $9.62; W. T. Dawley, $19.31; H. E. Dendoff, $9.40; Dominion Express Co., $7.02; Dominion Government Telegraphs, $30.15; Dominion Rubber System (Pacific), Ltd., $145.73; G. Edland, $25; Electric Blue Print & Map Co., $6.20; E. & N. Railway Co., $6.60; T. Exton, $3; Ford Lumber Co., $6.72; G. Forrest, $19.45; W. S. Fraser & Co., Ltd., $597.14; Giant Powder Co. of Canada, Ltd., $543.30; Gilroy-McKay Lumber Co., $20.84; Hafer Machine Co., Ltd., $38.47; J. Heaney, $39.50; H. J. Holman, $91.34; M. L. Holt, $2.85; Imperial Oil, Ltd., $1,006.32; Jones & Rant, Ltd., $74.60; King's Printer, $72.29; S. Leiser & Co., Ltd., $5.40; licences, $61.41; A. A. Lynn, $3.75; J. Manuel, $205.20; W. G. McIntyre, $56.82; M. G. McLean, $9.25; M. McKee, $20.40; D. McMillan, $30.25; Nanaimo Foundry, $9.17; Nanaimo Daily Herald, $2.75; Nootka Packing Co., Ltd., $23.75; J. Packard, $180; Paine, McIntyre & Dopson, $91.25; A. Parks, $24; G. Paterson, $93; Pedler People, Ltd., $196; Pineo Bros., 60c.; Pioneer Feed, Coal & Oil Co., Ltd., $82.15; W. A. Pitzer & Sons, $17.81 Port Alberni Boat & Launch Works, $11.65; postage, $59; E. G. Prior & Co., Ltd., $128.98; Qualicum Merchant, $117.79; Rushton's Garage, $36.06; Sampson Motor Co., $159.46; Sawyer-Massey Co., Ltd., $90.60; Ship Chandlers, Ltd., $20.08; A. Skinner, $163.50; J. Sloman, $104.10; G. Spencer, $8.10; E. Stevenson, $111.44; J. Stewart, $24.65; Straits Lumber Co., Ltd., $19.42; Thompson's General Store, $60.77; The Valley Store, $42.65; J. A. Vernon, $14.05; D. Watson, $135.77; E. M. Whyte, $6.13; A. Wilkinson, $26.50; J. T. Williams, $3.15; H. Woodward, $10.50

$58,570 33
By cash 270 37
$ 58,299 96

Bridges:
Maintenance and Repairs:
Pay-lists, labour and team-work, $11,181.09
Miscellaneous:

Alberni Hardware Co., Ltd., $13.19; Alberni Pacific Lumber Co., Ltd., $1,115.92; F. Brand, $162.27; Brennan Lake Lumber Co., Ltd., $82.49; B.C. Iron Works, $9.50; J. J. Burke, $1; C.P.R. Co., $30.31; G. M. Cathcart, $67.75; Custance & Co., $11; A. D. Darlington, $23; Electric Blue Print & Map Co., $1.15; E. C. Emde, $2.40; Errington Lumber Co., $71.26; E. and N. Railway Co., $21.77; Evans, Coleman & Evans, Ltd., $320.79; Ford Lumber Co., $301.89; G. Forrest,

Carried forward	$ 58,299 96	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Alberni District—Continued.		
	Brought forward	$ 58,299 96	$ 349,131 74
	Bridges—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	$5.94; W. S. Fraser & Co., Ltd., $222.96; A. Hansen, $34.04; Holberg Mercantile Co., $2.50; S. Leiser & Co., Ltd., $3.50; J. Manuel, $85.85; W. G. McIntyre, $1.50; M. G. McLean, $2.15; McLennan, McFeely & Co., Ltd., $98.99; Nanoose Lumber Co., Ltd., $12.05; New Ladysmith Lumber Co., Ltd., $179.74; Nanaimo Foundry, $181.38; Paine, McIntyre & Dopson, $28.42; H. Peterson, $32; Port Alberni News, $2.04; Qualicum Lumber Co., $262.80; Qualicum Merchant, $6.50; Sidney Roofing & Paper Co., Ltd., $7.62; A. L. Skinner, $17.34; J. J. Skinner, $30; J. Sloman, $15.50; Straits Lumber Co., Ltd., $108.85; Vancouver Engineering Works, $156.84; Walker & Marven, $234.62	15,149 91	
	Protection of River-banks:		
	Cameron River:		
	Pay-lists, labour and team-work, $385.84		
	Spruce River:		
	Pay-lists, labour and team-work, $298.42	684 26	
	Total expenditure, Alberni District	$ 74,134 13	
	Atlin District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	General Foremen:		
	H. Molyneaux, salary $1,800, expenses $252.25; G. A. Young, salary $2,082, expenses $946.46		
	Clerk, E. McManus, salary $189.56		
	Pay-lists, labour and team-work, $23,026.89		
	Miscellaneous:		
	Albert & McCaffery, $49.05; Alice Arm Freighting Co., $795.09; G. Banask, $5; Bank of Montreal, $11.25; Barrington Transport Co., $20.90; Big Bay Lumber Co., Ltd., $174.13; B.C. Equipment Co., Ltd., $125.69; G. W. Bruggy, $14.75; P. Burns & Co., Ltd., $9.90; J. F. Callbreath, $21.90; Canadian Express Co., Ltd., $5.20; Canadian North-eastern Railway Co., $12.17; Crawford Transfer Co., $338.20; Dominion Government Telegraphs, $71.26; F. W. Falconer, $1,349.35; W. Fraser, $68; P. Gabrio, $97.30; Great West Saddlery Co., $89.31; D. L. Hall, $355; N. G. Hanson, $4; E. Harris, $31.75; Howe & McNulty, $160.40; Hudson's Bay Co., $67.76; J. Hyland Estate, $48.85; M. Inspring, $20; F. Jeune & Bro., Ltd., $303.77; J. B. Kershaw, $30; L. Marten, $11.06; F. H. Mobley & Co., Ltd., $1,371.45; N. Moreau, $13.50; H. J. Murphy, $63; Nash & Patten, $538; National Drug & Chemical Co. of Canada, Ltd., $64.05; C. W. A. Nevile, $31.95; Pacific Cartage Co., 75c.; A. F. Priestley, $5.75; J. M. Ruffner, $368.25; Salmon River Trading Co., Ltd., $24.80;		
	Carried forward	$ 74,134 13	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Atlin District—Continued.		
	Brought forward	$ 74,134 13	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	L. Schulz, $135.45; M. M. Smith, $1.25; J. Smyth, $3.06; Stewart Trading Co., $2.50; J. Tallmire, $5; Taylor Engineering Co., Ltd., $24.63; F. C. Underhill, $20; C. Vance, $9; J. Williams, $506.60; A. E. Young, $22.50; Yukon Telegraphs, $12.58	$ 35,812 27	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $7,218.72		
	Miscellaneous:		
	Albert & McCaffery, $145.40; Aldred & Carruthers, $39.25; Crawford Transfer Co., $15.75; F. Dorey, $3; T. W. Falconer, $68.75; Howe & McNulty, $146.30; Hudson's Bay Co., $17.40; Hyder Auto Service, $5.50; J. Hyland Estate, $26.90; Lawrence & Workman, $504.20; Preston & McDonald, $425; Salmon River Trading Co., Ltd., $301.30; Small & McDougall, $66.50; Stewart Trading Co., $17; Thompson Hardware Co., $79.30; F. P. Thorman, $10; A. E. Young, $120	9,210 27	
	Wharves:		
	Maintenance and Repairs:		
	Pay-lists, labour, $360		
	Miscellaneous:		
	Graham Island Spruce & Cedar Co., Ltd., $2,843.90; C. C. Ketchum, $400; Salmon River Trading Co., Ltd., $114; Small & McDougall, $4	3,721 90	
	Protection of River-banks:		
	Kitsault River:		
	Alice Arm Freighting Co., $67.35; T. W. Falconer, $228.50; Granby Consolidated Mining, Smelting & Power Co., Ltd., $230.77; Kergin & Fowler, $15; Taylor Engineering Co., Ltd., $31.10; pay-lists, labour, $3,518	4,090 72	
	Total expenditure, Atlin District		52,835 16
	Cariboo District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	Assistant District Engineer, E. G. Baxter, salary $412.09, expenses $320.15		
	General Foremen:		
	J. Forsyth, salary $1,916.12, expenses $1,010.47;		
	R. Rutherford, salary $1,701.29, expenses $751		
	Clerk, J. P. Davies, salary $120		
	Pay-lists, labour and team-work, $41,575.07		
	Miscellaneous:		
	C. H. Allison, $24.45; L. H. Baillie, $3; A. Baker, Sr., $40.90; R. Barlow, $34.75; F. M. Becher, $5.25; W. F. Bendtsen, $41.80; W. Bliss, $2; A. Boitanio, $3; R. N. Borrowman, $27.25; A. E. Boyd, $43.48; J. Boyd Estate, $307.70; S. S. Boyd, $21.80; Brackman-Ker Milling Co.,		
	Carried forward	$126,969 29	$ 349,131 74

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF PUBLIC WORKS—*Continued.*

251. Roads, Streets, Bridges, and Wharves—*Continued.*

Cariboo District—Continued.

Brought forward ..... $126,969 29 $ 349,131 74

Roads and Streets—*Continued.*
Maintenance and Repairs—*Continued.*
Miscellaneous—*Continued.*

Ltd., $2,401.20; C. O. Bristol, $3; B.C. Equipment Co., Ltd., $251.35; B.C. Express Co., $1,510.10; A. F. Brown, $9.29; A. B. Campbell, $45.36; Canadian Explosives, Ltd., $49.70; Canada Ingot Iron Co., Ltd., $837.34; Cariboo Observer, $8.40; Cariboo Trading Co., Ltd., $1,087.51; A. Carson, $146.62; Cowan Supply Co., $451.37; E. F. Creighton, $5; L. J. Crosina, $448.85; W. G. Crowston, $6.50; J. F. Cruzan, $9.20; A. Cyr, $11.50; W. Dale, $16; Deep Creek Lumber Co., $130.75; Dominion Government Telegraphs, $173.21; J. J. Donnelly, $25; T. Dougherty, $33.50; J. Eholt, $12.90; Enterprise Cattle Co., Ltd., $17.50; W. T. Ewing, $77.80; J. A. Fraser, Ltd., $352.43; W. S. Fraser & Co., Ltd., $8.07; Fraser & Mackenzie, $169.77; H. J. Gardner, $118.70; A. Graham, $11.50; G. G. Hamilton, $106.65; F. Harper, $207; Harvey, Bailey, Ltd., $27; Hilborn Ranching Co., $118.12; T. J. Hodgson, $24; W. Hogg, $22.75; E. L. Holden, $1,401.54; T. O. Hooker, $91.05; C. D. Hoy, $3.60; Hudson's Bay Co., $151.27; Imperial Oil, Ltd., $79.10; Inland Express Co., $52.70; J. Iverson, $2; A. W. Jervis, $3.82; F. Jeune & Bro., Ltd., $756; J. Johnson, $40; Johnstone Bros., $445.38; J. Keefe, $40; P. Kennedy, $4; J. C. Kilgore, $5.25; King's Printer, $1.45; C. Kremmin, $354; C. Laronde, $44; J. A. Lazzerin, $824.84; E. P. Lee, $22.50; N. Lee, $15.25; S. Lee, $25.96; T. C. Lee, $39.05; W. Lee & Co., $59.08; R. T. Lewis, $75; D. Liddell, $25.50; Louie Co., $205.37; W. E. Loveridge, $12.50; W. Lowden, $110.60; Hung Lung Co., $24.90; W. O. Lung, $3; A. Macauley, $29.28; O. A. Mackay, $10; S. G. Marwick, $262.50; A. Meiss, $7.50; A. Michel, $4.75; H. H. Moffat, $55.20; G. W. J. Moore, $241.59; O. MacDougall, $222.01; L. M. McKinnon, $12.50; J. McLuckie, $680.72; National Drug & Chemical Co. of Canada, Ltd., $31.25; R. F. Newton, $24; A. Nicol, $120; Northern Construction Co., $247.74; Northern Hardware Co., $1,335; Onward Store, $304.86; P.G.E. Railway, $675.75; W. Parker, $36.10; G. B. Patenaude, $304.90; T. B. Paxton, $7; W. Pearson, $2.50; R. Pickard, $3.75; A. Pierce, $13.25; F. W. Pinchbeck, $39; postage, $35; M. Pross, $40; H. A. Pullin, $37.50; Quesnel Telephone Co., Ltd., $17.30; Quesnel Timber & Trading Co., $530.98; J. D. Ragan, $53.55; J. Reid Estate, $20; Riley & McCormick, Ltd., $462.50; M. Ritchie, $49.50; J. F. Rose, $24.25; R. R. Ross, $15; E. Seeley, $8; J. Shepherd, $1,387.37; G. Smith, $17.25; H. H. Spencer, $60; C. Staebler, $400; J. Stuart, $11.85; Ah Tip, $6.50; Wade & Grant, $1,200; J. Wall, $15.50; Walters Bros., $83.70; W. Webster,

Carried forward ..... $126,969 29 $ 349,131 74

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Cariboo District—Continued.		
	Brought forward	$126,969 29	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	$1,726.90; J. Wiggins, $15; J. F. Williams, $58; S. N. Williams & Co., $7.50; A. T. Windt, $13; G. C. Windt, $19; Wingdam Co., Ltd., $23.25; P. Zshiedrich, $9	$ 73,233 77	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $14,720.24		
	Miscellaneous:		
	E. H. Allcock, $1,000; D. Beath, $60.75; A. Boyd, $17.43; B.C. Express Co., $128.71; A. B. Campbell, $15.60; Cariboo Observer, $3.75; W. W. Clark, $34.90; A. J. Colebank, $16.50; Cowan Supply Co., $91.30; E. F. Creighton, $3.50; L. J. Crosina, $76.90; T. J. Cyr, $1,150; Deep Creek Lumber Co., $13.07; R. Edens, $7.50; C. Evans, $21.50; Fletcher & Holt, $5.75; J. A. Fraser, Ltd., $145.82; G. A. Fullerton, $36.17; Gibson's, Ltd., $75.50; G. G. Hamilton, $376.12; A. G. Harrington, $100; S. L. Hilborn, $173.58; T. J. Hodgson, $90; T. O. Hooker, $45.40; C. Johnson, $32; J. Johnson, $30.75; L. Johnson, $32.95; Johnston Bros., $124; Joyce & Johnston, $408; G. Keen, $4.50; J. H. Kelly, $3; G. M. Kerkoff, $39.25; J. A. Lazzerin, $263.55; J. Lavoie, $10; T. C. Lee, $16.55; Louie Co., $2.25; W. Lowden, $98; F. R. Macdonald, $5; J. Machel, $12; S. G. Marwick, $62; W. A. McKeen, $10.50; H. McKenzie, $37; P. McMaster, $39.25; Northern Construction Co., Ltd., $841.61; Northern Electric Co., Ltd., $44.75; W. Parker, $51; A. Pierce, $7; Prince George Manufacturing Co., $67.50; S. C. Prior, $20.25; J. Quanstrom, $7; Quesnel Timber & Trading Co., $1,594.61; H. Reed, $57.81; J. F. Rose, $1.75; Ross & Howard Iron Works Co., $297.67; J. Shepherd, $426.56; C. Staebler, $80; Ah Tip, $3.55; G. Warren, $13.91; A. T. Windt, $46.25; Wood, Vallance & Leggat, Ltd., $64.05; Fort George District, $290	23,555 81	
	Total expenditure, Cariboo District		96,789 58
	Chilliwack District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	Assistant District Engineer, E. H. Verner, salary $1,140, expenses $682.32		
	Stenographers:		
	L. E. Jackson, salary $140; A. Robinson, salary $167.50		
	Pay-lists, labour and team-work, $26,577.50		
	Miscellaneous:		
	Abbotsford Lumber, Mining & Development Co., $286.91; Albion Motor Express, $1.50; M. R.		
	Carried forward	$223,758 87	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Chilliwack District—Continued.		
	Brought forward	$223,758 87	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	Archibald, $23.46; W. M. Banford, $15; B.C. Drafting & Blue Print Co., $3; B.C. Telephone Co., Ltd., $82.56; Burr Office Supplies, 75c.; Canadian National Railways, $3.75; J. Carlow, $6.20; A. & G. Carter, $366; Chilliwack Vulcanizing Works, $2.50; Comfort Car Garage, $9.38; G. Dedilock, $79.40; Dominion Express Co., 65c.; Dominion Glazed Cement Pipe Co., Ltd., $214.45; W. Ellwood, $33; Evans, Coleman & Evans, Ltd., $156.24; Great Northern Railway Co., 50c.; Giant Powder Co. of Canada, Ltd., $148.90; L. Grand, $2.88; W. Greenlees, $164.25; W. Hall, $31.50; Hamre & Carmichael, $124.23; Imperial Oil, Ltd., $57.63; Ironside & Nicolson, $28.02; Jackson Printing Co., $10.71; King's Printer, $49.36; licences, $21.20; Lillie's Garage, $285.95; Municipality of Matsqui, $150; Menzies Hardware Co., $115.05; Mining Recorder, New Westminster, $40; R. A. Muir, $20.75; M. Murphy, $19.98; Mussens, Ltd., $17.15; W. McGrath, $6.75; J. K. McMenemy, $8.15; National Drug & Chemical Co., Ltd., $30; National Shingle Co., $705.19; Office Specialty Manufacturing Co., Ltd., $73.44; Owen's Grocery, $10.40; Owners, Ltd., $10.10; Pearson Bros., $1.50; potsage, $5; J. G. Redpath, $9.20; Remington Typewriter Co., Ltd., $43.20; F. Rexford, $55.20; Robertson Bros., $81.74; Semple & Semple, $29.65; Sipprell & McDonald, $39.65; A. A. Smith, $50; G. H. Smith, $12; H. E. Smith, $18; Sumas Municipality, $50; L. Town, $4; U.S. Fidelity & Guarantee Co., $20; W. R. Watt, $14; G. Wilkinson, $40; H. Williams, $19.25		
		$32,616 55	
	By cash	1,300 00	
			$ 31,316 55
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $1,638.40		
	Miscellaneous:		
	Abbotsford Lumber Co., $80.38; Beaver River Lumber Co., Ltd., $21.60; B.C. Drafting & Blue Print Co., $2.30; Columbia Bitulithic Co., Ltd., $121.03; R. S. Fotheringhame, $68.60; W. Greenlees, $2,990; C. A. Johnson, $70.32; King's Printer, $4; Larson & Nascou, $30.24; R. A. Muir, $5.45; K. McGillivary, $268.80; McRae & Son, $141.37; A. A. Rerrie Lumber Co., Ltd., $46.08; F. M. Singer, $740.79; Sipprell & McDonald, $31.60; D. G. Sutherland, $127.50; Vancouver Daily Province, $27	6,415 46	
	Protection of River-banks:		
	Vedder River:		
	A. Rexford, $800; pay-list, labour and team-work, $19.50	819 50	
	Total expenditure, Chilliwack District		38,551 51
	Carried forward	$262,310 38	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Brought forward	$262,310 38	$ 349,131 74
	Columbia District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	Assistant District Engineer, G. C. Tassie, salary $2,280, expenses $924.20		
	Clerk, A. J. Passmore, salary $1,320		
	Pay-lists, labour and team-work, $33,298.54		
	Miscellaneous:		
	P. Adlard, $27.95; T. Alton & Sons, $79.56; F. L. Archer, $9.70; N. M. Bentley, $20.12; Bentley Lumber Co., $450.12; J. Birkenham, 50c.; J. Blakley, $42; B.C. Equipment Co., Ltd., $187.03; Brown, Fraser & Co., Ltd., $39.50; R. Butterfield, $125; Canadian Explosives, Ltd., $1.022; C.P.R. Co., $98.67; W. Cockrell, $4.50; Columbia River Lumber Co., $37.56; Columbia Valley Farmers' Institute, $17.45; J. W. Conner, $16.50; T. H. Conner, $68; H. Dartt, $1.332.55; Columbia Valley Irrigated Fruit Lands, Ltd., $60; Dominion Express Co., $8.30; Dominion Government Telegraphs, $86.64; M. Dumond, $23.15; Electric Blue Print & Map Co., $26.50; Federal Motor Co., Ltd., $24.10; M. H. Fraling, $43.15; Golden Light Power, & Water Co., $51; Golden Star Publishing Co., $37.84; A. C. Hamilton, $91.10; B. G. Hamilton, $1; Hanson Garage, $4.60; J. Henderson, $5; W. Hughes, $6.55; Imperial Oil, Ltd., $540.22; Invermere Construction & Supplies, $604.54; Invermere Contracting Co., Ltd., $77.15; F. Jeune & Bro., Ltd., $527.10; King's Printer, $70.74; G. Lafontaine, $4.75; Lake & Co., 50c.; Lake Windermere Lumber Yard, $11.75; A. Larson, $64.55; O. Larson, $10; C. Laughlin, $35; licence, $10; T. Mercier, $15.15; H. R. Moodie, $7.20; Mussen's, Ltd., $199.52; J. McHattie, $33.50; National Drug & Chemical Co. of Canada, Ltd., $30; E. B. Nelson, $297.60; H. G. Parson, Ltd., $6.15; Pitts & Hankey, $3.33; postage, $41; J. Quinn, $1.32; F. Richardson, $49.65; D. R. Rolston, Ltd., $25.45; Sawyer-Massey Co., Ltd., $11; E. Sellentin, $25.50; M. A. Smith, $11.75; E. Tunnacliffe, $10.80; C. A. Warren, $212.83; W. Wenman, Jr., $1.50; E. Weston, $4.50; Wilmer Mercantile Co., $13.80; Windermere Orchards, $43.60; A. Wolfenden, $3; J. T. Wood, $58.85		$ 44,933 68
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $8,660.86		
	Miscellaneous:		
	T. Alton, $94.43; J. A. Anderson, $10.56; N. M. Bentley, $62.12; Bentley Lumber Co., $197.70; Brunette Saw Mill Co., $1,847.23; J. J. Burkenham, $3; Canada Ingot Iron Co., $567.72; C.P.R. Co., $71.19; Columbia River Lumber Co., $27.10; T. Connor, $3; A. G. Creelman & Co., $7,598.22; Dartt & Patterson, $125.75; J. Dickson, $42.36; Dominion Express Co., 40c.; Fernie Garage, $48.40; Golden L. P. & Water		
	Carried forward	$ 44,933 68	$262,310 38 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Columbia District—Continued.			
	Brought forward		$ 44,933 68	$262,310 38 $ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Co., $36; A. C. Hamilton, $7; J. J. Hawkins, $1.20; J. Henderson, $8,039.52; R. Hubregtse, $2.50; W. Hughes, $64.75; Invermere Contracting Co., $112.15; C. Johnson, $5; A. Lafontaine, $2; Lake & Co., $1.20; G. R. Leask, $53.20; E. I. Longfellow, $161.50; F. R. Macdonald, $21.10; T. Mercier, $1.25; H. R. Moodie, $17.60; P. Morris, $25; J. McHattie, $21.90; M. Olafson, $1; E. Olson, $14.97; Pitts & Hankey, $5; F. Richardson, $3.45; D. R. Rolston, Ltd., 30c.; Ross & Howard Iron Works, $1,001.71; C. A. Warren, $7.75; Wilmer Mercantile Co., $15.52; J. T. Wood, $22.35		$29,004 96	
	By cash		187 81	
				28,817 15
	Protection of River-banks:			
	Kicking Horse River:			
	Armstrong Bros., $347.25; D. W. Axe, $651.32; J. Birkenham, $72; Canada Cement Co., Ltd., $992.15; C.P.R. Co., $376; A. Clark, $2; Columbia River Lumber Co., $110.28; Columbia Valley Irrigated Fruit Lands, $18; Crows Nest Pass Coal Co., Ltd., $225.20; Dartt & Patterson, $179.98; Golden Star Publishing Co., $8.50; A. C. Hamilton, $32; J. Heaney, $5; J. Henderson, $34.48; S. High, $25.15; W. Hughes, $103.50; Imperial Oil, Ltd., $48.06; G. Lafontaine, $3; A. D. J. Mathieson, $15; H. R. Moodie, $7.30; Mussens, Ltd., $59.40; J. McHattie, $1.75; J. McKenzie, $1; H. G. Parson, $87.35; D. R. Rolston, Ltd., $29.20; C. A. Warren, $48.30; W. Wenman, Jr., $42.55; Wilkinson Co., Ltd., $111.38; J. T. Wood, $19.65; pay-lists, labour and team-work, $7,473.91			11,130 66
	Total expenditure, Columbia District			84,881 49
	Comox District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	Assistant District Engineer, W. A. Richardson, salary, $2,280, expenses $1,236.92			
	Stenographer, H. White, salary $811.33			
	Pay-lists, labour and team-work, $64,995.27			
	Miscellaneous:			
	T. E. Bate, $1.50; Begg Motor Co., Ltd., $49.85; T. Booth & Sons, $15.44; B.C. Equipment Co., Ltd., $83.33; B.C. Packers' Association, $75.24; B.C. Telephone Co., Ltd., $120; Brown, Fraser & Co., Ltd., $29.70; Burnett & Stevenson, $7; Campbell River Trading Co., $13.50; Canadian Collieries (Dunsmuir), Ltd., $19.39; Canadian Explosives, Ltd., $488.74; Canadian Fairbanks-Morse Co., Ltd., $46.98; C.P.R. Tele-			
	Carried forward			$347,191 87 $ 349,131 74

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Comox District—Continued.		
	Brought forward	$347,191 87	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	graphs, $4.09; Carter Bros. Lumber Co., $13.10; C. Carwithen, $25; City of Courtenay, $25.68; E. T. Cliffe, $49.15; L. S. Cokeley, $48.20; Comox Argus, $15.84; Comox Logging & Railway Co., $41.25; F. Cook, 65c.; Courtenay Garage, $9.50; Courtenay Hardware, $16.45; Courtenay Lumber Co., $4.95; S. Cowan, $9; Cumberland Motor Works, $10; F. Dack, $119; A. G. Deighton, $115.48; P. J. Doheny, 50c.; Dominion Express Co., $40.79; Dominion Government Telegraphs, $122.64; G. Douglass, $18.75; M. Dumond, $95.25; Dunlop Tire & Rubber Goods, Ltd., $35.54; J. Durico, $3.50; Electric Blue Print & Map Co., $143.75; Emde & Wain, $89.60; E. and N. Railway Co., $122.84; Fanny Bay Lumber Co., $46.49; R. N. Fitzgerald, $9; Ford Garage, $71.43; Fletcher & Richards Lumber Co., $2.10; W. S. Fraser & Co., Ltd., $1,183.08; Fraser & Horne, $4.35; A. B. Gatz, $5; Giant Powder Co. of Canada, Ltd., $2,139.20; J. Gold, $27.29; Gwilt Lumber Co., Ltd., $37.54; J. Hilton, $14.24; H. J. Holman, $17.84; Imperial Oil, Ltd., $872.59; F. Jeune & Bro., Ltd., $185.31; Jones & Rant, Ltd., $24.88; A. R. Kierstead, 75c.; Kingcome Navigation Co., $11.08; King's Printer, $251.69; licence, $15; Macey Office Equipment Co., Ltd., $75; H. Marsden, $72; E. B. Marvin & Co., $94.28; A. H. Maynard, $52.50; S. M. Maysmith, $240.36; Merville Garage, $587.35; Mitchell & Hembroff, $160.09; Mottishaw & Morrison, $488.43; E. Muschamp, $20.80; Mussen's, Ltd., $143.65; A. MacKinnon, $3.15; J. W. McKenzie & Son, $107.37; McLoughlin Bros., $11.05; R. McQuillan, $34; National Drug & Chemical Co. of Canada, Ltd., $76.54; J. O'Donnell, $10; Pedlar-People, Ltd., $158; Pidcock & Willemar, $28.10; T. Plimley, $2.20; postage, $111.08; Powell River Co., Ltd., $18.01; Quathiaski Canning Co., Ltd., $1.80; Registrar-General of Titles, Victoria, $3; E. H. Robinson, $5; T. Robinson, $3; W. G. Robertson, $2.25; Royston Lumber Co., $3.70; C. W. Russell, $12; H. O. Sacht, $13.40; Sawyer-Massey Co., Ltd., $47.20; J. Scothorn, $4; W. F. Shoeppe, $3.75; Sigmore Motor Co., Ltd., $9.64; A. Skinner, $25.28; J. Skittles, $5; T. R. Smith, $21; Sointula Co-operative Store, Ltd., 30c.; Stanford's Garage, $1.60; G. E. Stocks, 50c.; J. E. Sulley, $1.50; A. H. Swan, $3; C. H. Tarbell & Son, $183.31; C. Thulin, $28.10; Times P. & P. Co., Ltd., $24.50; S. Trew, $1; Union Steamship Co., of B.C., Ltd., $3.80; United Typewriter Co., Ltd., $13.50; J. K. Urquhart, $118.78; A. G. Walker, $30; Weeks' Motors, Ltd., $15.85;		
	Carried forward	$347,191 87	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Comox District—Continued.		
	Brought forward	$347,191 87	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	W. Willard, $15.89; C. S. Wood, $10.85; Wood, Vallance & Leggat, Ltd., $97.84		
		$79.577 85	
	By transfers	8.901 76	
			$ 70,676 09
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $16,158.57		
	Miscellaneous:		
	T. E. Bate, 60c.; Blunt & Ewart, $27.50; T. Booth & Sons, $23.13; Burnett & Stevenson, $8.84; Cameron Lumber Co., Ltd., $214.07; Canadian Explosives, Ltd., $8.69; Carter Bros. Lumber Co., Ltd., $178.35; E. T. Cliffe, $23.25; L. Cochenow, $7; L. S. Cokely, $14; C. Collett, $4; Comox Argus, $11; Courtenay Transfer Co., Ltd., $57; A. Cowie, $20.55; W. Crawford, $14; J. Crockett, $10; Courtenay Lumber Co., Ltd., $60.59; Courtenay Transfer Co., $21.75; F. Dack, $14.44; A. G. Deighton, $3.50; Dominion Express Co., $1.30; Dominion Rubber System (Pacific), Ltd., $66.97; G. Douglass, $1.50; Electric Blue Print & Map Co., $16.90; Fanny Bay Lumber Co., Ltd., $7.10; R. N. Fitzgerald, $42; Ford Garage, $1; W. S. Fraser & Co., Ltd., $255.67; Giant Powder Co. of Canada, Ltd., $2.65; Gwilt Lumber Co., $935.23; Heaps & Sons, Ltd., $29.08; A. J. Hern, $1.328.15; J. Holt, $2.50; I. Howes, $4.25; S. Jenson, $2; King's Printer, $10; F. la Londe, $10; J. Leigh & Sons, $124.41; E. B. Marvin & Co., $18.97; Merville Garage, $220.50; J. Meston & Co., Ltd., $29.20; G. Mitchell, $4; R. Moncrieff, Sr., $8.146; Mottishaw & Morrison, $668.81; Mussens, Ltd., $18; J. W. McKenzie & Son, $157.10; McLennan, McFeely & Co., Ltd., $298.27; J. Ninimin, $12.80; Powell River Co., Ltd., $13.75; T. Robinson, $20; Royston Lumber Co., $18.50; H. O. Sacht, $16.69; A. Skinner, $1.08; M. M. Stephens, $82.05; D. G. Sutherland, $848.10; G. M. Swan, $37.70; Tacoma Steel Co., 80c.; C. H. Tarbell & Son, $21.20; C. Thulin, $47.90; Times P. & P. Co., Ltd., $31.50; M. Tribe, $4; Union Steamship Co., of B.C., Ltd., 64c.; Vancouver Daily Province, $55.50; Vancouver Lumber Co., Ltd., $30.07; Wilkinson Co., Ltd., $38.22; Wood, Vallance & Leggat, Ltd., $11.41	30,574 30	
	Total expenditure, Comox District	101,250 39	
	Carried forward	$448,442 26	$ 349,131 74

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF PUBLIC WORKS—*Continued.*

251. ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*

Brought forward ..... $448,442 26 $ 349,131 74

Cowichan District.

Roads and Streets:
Maintenance and Repairs:
Assistant District Engineers:
D. W. Johnston, salary $208, expenses $98.90;
H. C. Mann, salary $950, expenses $675.62
Stenographer, R. H. Wilson, salary $255
Pay-lists, labour and team-work, $29,097.25
Miscellaneous:
C. H. Armour, $2; D. Ashby, $56; J. Averill, $5.40; J. Bain, $22.20; T. P. Barry, $40.60; E. W. Bazett, $24.25; G. E. Bonner & Sons, $39; B.C. Telephone Co., Ltd., $113; C. W. Brownell, $2.25; Burchett & Ward, $27.50; L. M. Burkitt, $3.70; N. Butt, $6.80; Canadian Fairbanks-Morse Co., Ltd., $56.35; C.P.R. Co., $4.50; P. Carvell, 50c.; G. Cheeke, $2; J. Christenson, $23.10; J. W. S. Clarke, $277.30; Cobble Hill Garage, $31.96; Cobble Hill Grocery, $24.75; A. Coles, $1.10; City of Duncan, $24.84; Cowichan Merchants, Ltd., $773.35; D. Daniels, $11.90; B. W. Devitt, $25.91; Dominion Express Co., $36.59; E. D. Dougan, $23.80; H. E. Donald, $16.10; Duncan Garage, Ltd., 373.85; J. Duncan, $7.30; W. Dwyer, $102; E. & N. Railway Co., $38.77; J. Evans, $162.30; H. Excell, $42.50; F. Forrest, $3.40; W. Forrest, $12.60; W. S. Fraser & Co., Ltd., $23.25; C. Gaisford, $4.10; J. Galbraith, $2.50; R. Grassie & Son, $33.25; J. B. Green, $31.50; H. W. Halpenny, $2.18; G. A. Harris, $23.15; D. R. Hattie, $83.05; A. E. Hayward, $5; J. Heaney, $13.05; W. L. Henderson, $42.05; Heyworth & Green, $4; J. Highsted, 90c.; W. Hill, $11; Hillcrest Lumber Co., $106.76; L. Hird, $25; Imperial Oil, Ltd., $58.68; Indian Agent, Rogers Lake Reserve, $3.50; A. Jack, $7.90; S. James, $2.10; F. Jeune & Bro., Ltd., $79.95; P. Joe, $3; Kingsley Bros., $50.60; King's Printer, $83.71; Lake Launch & Motor Works, $12; licence, $23.40; R. E. Lodwick, $16.50; Macklin & Napper, Ltd., $15.75; Madina Lumber Co., Ltd., $131.63; Malahat Garage, $39.05; J. Marsh, $10.30; H. C. Martin, $1; H. W. May, $6.60; S. M. Maysmith, $47.40; P. Michelin, $7.10; Moddest (Indian), $9.80; McLay Sawmill, $43.92; National Drug & Chemical Co. of Canada, Ltd., $15; Pedlar People, Ltd., $352; H. Peile, $104.10; G. F. Plumb, 88c.; postage, $58; W. J. Pourier, $15; W. S. Robinson, $5; Shawnigan Lake Lumber Co., Ltd., $46.67; E. Shearing, $4; A. T. Sivertson, $5; J. R. Smith, $5.50; J. Spears, $9.80; E. Stock, $28.70; Tansor Lumber Co., Ltd., $20.62; W. Thomson, $44.50; R. A. Thorpe, $31.60; Toiling-Power, Ltd., $43.79; H. Trinder, $55.20; L. Underwood, $6.20; F. van Norman, $43.06; Victoria Lumber & Manufacturing Co., Ltd., $10.30; T. H. Walton, $6.10; W. Weeks, $3.60; R. H. Whidden, $12; S. White, $7.20; E. Wilmot,

Carried forward ..... $448,442 26 $ 349,131 74

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Cowichan District—Continued.			
	Brought forward		$448,442 26	$ 349,131 74
	Roads and Streets—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	$1.20; J. Wood, $1; J. M. Wood, $81.55; M. Wood, $21.68			
		$35,808 12		
	By cash	534 62		
			$ 35,273 50	
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $6,076.68			
	Miscellaneous:			
	C. H. Armour, 50c.; T. P. Barry, $17.95; E. W. Bazett, $29.70; G. E. Bonner & Sons, $32.95; P. Boudot, $5; B.C. Ironworks, Ltd., $248; C.P.R. Co., 94c.; G. M. Cathcart, $10.95; W. T. Chapman, $9; Cobble Hill Grocery, $24.37; Cowichan Merchants, Ltd., $192.77; G. Crowther, $2.50; Dominion Express Co., $2.40; J. Evans, $13.60; E. & N. Railway Co., $4.59; E. H. Forrest, $1.50; G. Frayne, $7; Frondeg Lumber Co., $165.34; R. Grassie & Son, $18.95; Gregson Bros., $10; Hafer Machine Co., Ltd., $63.10; D. R. Hattie, $55.25; Hillcrest Lumber Co., $620.44; F. Johnny (Indian), $4.80; Kingsley Bros., $13.40; Macklin & Napper, $27.95; R. J. Manley, $111; McLay Sawmill, $1,919.61; W. Murchie, $26.15; J. McPherson, $8; A. Nightingale, $3.50; H. Peile, $2.10; Shawnigan Lake Lumber Co., $146.79; J. E. Stillwell, $2; E. R. Taylor, $43.20; E. van Norman, $40.91; Victoria Lumber Co., $46.02; B. Wilkinson, $2; Mrs. Wood, $5.80; J. M. Wood, $10.90	10,027 61		
	Wharves:			
	Maintenance and Repairs:			
	Miscellaneous:			
	Cowichan Leader P. & P. Co., Ltd.	3 75		
	Total expenditure, Cowichan District		45,304 86	
	Cranbrook District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, O. Bristow, salary $2,160, expenses $850.22			
	Pay-lists, labour and team-work, $37,391.47			
	Miscellaneous:			
	H. Barr, $3; Beattie-Noble Co., Ltd., 25c.; C. Bossio, $17.50; Browne & Crowe, $56.50; P. Bulkot, $7.50; P. W. Bull, $10; Canada Ingot Iron Co., $487.35; C.N.P. Lumber Co., $2.80; C.P.R. Co., $218.79; Carlson & King, $4.30; J. Cholditch, $11.70; City Transfer & Warehouse Co., $147.45; F. Clark, $7; Collector of Customs, $7.98; F. H. Conrad, $10; F. W. Cooper, $6; Cranbrook Cartage & Transfer Co., $76.21; Cranbrook Foundry & Machine Shops, $7.75;			
	Carried forward		$493,747 12	$ 349,131 74

No. of Vote	SERVICE.		Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Cranbrook District—Continued.			
	Brought forward		$493,747 12	$ 349,131 74
	Roads and Streets—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Cranbrook Saddlery Co., $2.35; Cranbrook Sash & Door Co., Ltd., $58.96; Cranbrook Vulcanizing Works, $67.10; Crows Nest Pass Lumber Co., Ltd., $126.13; E. Deltz, $8.50; V. Desaulnier, $11.50; F. Dezall, $56.85; Dominion Express Co., $29.62; W. F. Doran, $6.20; B. T. Duncan, $23.50; Fink Mercantile Co., $895.30; Fort Steele Trading Co., $8; W. R. Gibbs, $18.10; T. Green, 50c.; R. W. Hamilton, $50; Hanson Garage, $452.60; W. Henderson, $21.50; Imperial Oil, Ltd., $498.66; Joe (Indian), $4.78; W. E. Johnson, $9.75; J. Kelly, $120; G. Kennedy, $72.25; Kershaw & Son, $6.50; Kootenay Garage, $4; M. E. Lees, $10; J. P. Lewis, $5.60; Little & Atchison, $2.50; E. A. Lythgoe, $5.20; A. Mellor, $5.80; A. J. Miller, $2.40; McCreery Bros., $26.40; McLeod & Harrison, $13.75; National Drug & Chemical Co. of Canada, Ltd., $16.20; Otis-Staples Lumber Co., $1,601.03; C. S. Parker, $17.89; F. Parkes & Co., $1,783.66; T. N. Parrett, $32.05; Patent Holding Co., $47.95; Slocan Mercantile Co., Ltd., $5; R. A. Smith, $12.65; C. C. Snowdon, $28.80; T. Summers, $34.55; J. Taylor, $25; H. Weir, $2; J. Wilson, $13.85; W. Woodland, $10; W. E. Worden, $6..	$ 47,744 70		
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $5,885.73			
	Miscellaneous:			
	Burke & Caldwell, $40; C.P.R. Co., $228.57; Cranbrook Saddlery Co., $1.25; Cranbrook Vulcanizing Works, $27.75; F. Dezall, $58.25; Fort Steele Garage Co., $2.50; Hanson Garage, $75.65; Imperial Oil, Ltd., $181.56; A. Mellor, $10; McLeod & Harrison, $12.75; F. Parks & Co., $212.88; T. N. Parrett, $16.35; Rainbow Creek Lumber Co., $105.46	6,858 70		
	Total expenditure, Cranbrook District		54,603 40	
	Delta District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	Assistant District Engineer, E. H. Verner, salary $1,140, expenses $588.68			
	Stenographers:			
	L. E. Jackson, salary $280; A. Robinson, salary $120; A. Williamson, salary $24.50			
	Pay-lists, labour and team-work, $15,841.93			
	Miscellaneous:			
	Acme Garage, $941.88; Aldergrove Garage, $96.65; Anderson & Lusby, $47.25; Belyea & Co., Ltd., 50c.; H. Bose, $25.05; B.C. Drafting & Blue Print Co., $1.25; B.C.E.R. Co., Ltd., $112.32; B.C. Telephone Co., Ltd., $95.46;			
	Carried forward		$548,350 52	$ 349,131 74

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Delta District—Continued.			
	Brought forward		$548,350 52	$ 349,131 74
	Roads and Streets—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Brown, Fraser & Co., Ltd., $45.42; C.P.R. Telegraphs, $2.84; J. Cannon, $25; Clayton Lumber Co., $44.40; Corporation of District of Langley, $13.75; G. Dedilock, $21; Dominion Express Co., $2.40; Duplex Motors, Ltd., $89.98; Evans, Coleman & Evans, Ltd., $93.61; Federal Motor Co., Ltd., $328.55; Flanagan Bros., $69.21; J. Gibbon, $14.55; Gilley Bros., Ltd., $518.40; A. K. Goldsmith, $13.05; Hamre & Carmichael, $698.78; G. Hanson & Co., $3.55; H. J. Holman, $71.35; W. Homes, $16.20; Imperial Oil, Ltd., $1,500.06; H. Johnson, $2.60; King's Printer, $9.60; licences, $170.40; W. H. Merritt, $528; G. Morrison, $197.55; J. W. Morton, $2; Municipality of Delta, $1,000; W. Murray, 40c.; Mussens, Ltd., $187.08; National Drug & Chemical Co. of Canada, Ltd., $30; Northern Transfer Co., $157.90; J. Oxenham, $6.75; H. V. Parr, $47.33; D. W. Poppy, $54.60; G. Porter, $5.10; P. Y. Porter, $16.65; postage, $20; Remington Typewriter Co., Ltd., $43.20; Ridley-Kennedy, Ltd., $2.86; Scott & Lawrence, $52.62; F. M. Singer, $14; Sipprell & McDonald, $48.55; L. Towell, $360; W. K. Wade, $6.84; H. Williams, $13.55	$25,865 15		
	By transfer to "B.C. Highway Loan Act, 1920," Delta District	687 40	$ 25,177 75	
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $1,297.19			
	Miscellaneous:			
	Anderson & Lusby, $21.65; W. Carter, $25; Clayton Lumber Co., $61.39; W. T. Eggins, $41.10; Flanagan Bros., $479.86; R. S. Fotheringhame, $12.60; Fraser River Pile Driving Co., $986.16; Galbraith & Sons (assignee), $15.83; J. Gibbon, $37.25; W. Greenlees, $834.33; Lanning, Fawcett & Wilson, Ltd., $7.85; A. Mercheson, $10.40; Timberland Timber Co., Ltd., $487.48		4,318 09	
	Total expenditure, Delta District			29,495 84
	Dewdney District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, P. Wylie, salary $2,160, expenses $878.23			
	Stenographers:			
	L. E. Jackson, salary $420; A. E. Robinson, salary $137.50; A. Williamson, salary $24.50			
	Pay-lists, labour and team-work, $39,076.30			
	Carried forward		$577,846 36	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Dewdney District—Continued.		
	Brought forward	$577,846 36	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous:		
	H. Alanson, $26.92; C. Anderson, $113.70; Anderson & Lusby, $522.08; Barrett Co., Ltd., $743.67; B.C. Drafting & Blue Print Co., $5.40; B.C. Refining Co., Ltd., $1,262.37; B.C. Telephone Co., Ltd., $155.79; Brown, Fraser & Co., Ltd., $40; Brunette Sawmills, Ltd., $52.47; Burr Office Supplies, Ltd., $2.55; C. Burton, $46.50; Canadian Explosives, Ltd., $359.87; C.P.R. Co., $232.71; J. Cannon, $2,025.81; J. A. Catherwood, $24.75; Christie & Walton's Garage, $9.50; W. J. Clark, $235; Clarke & Stuart Co., Ltd., $3.20; C. J. Cooper, $21.20; Coquitlam Garage, $2.50; Coquitlam Iron Works, $3.45; Corporation of District of Mission, $60; T. Cutler, $513; Z. Cyrs, $15; Dominion Express Co., $6.55; Dominion Rubber System (Pacific), Ltd., $84.48; Federal Motor Co., Ltd., $861.63; Firs, Ltd., $4.90; Fraser & Dyer, $12.30; Fraser Transfer Co., $2.50; G. Gatrell, $15; Giant Powder Co. of Canada, Ltd., $541.95; S. M. Gibbs, $9; Gilley Bros., Ltd., $1,898.54; D. Graham, $4.75; G. W. Hawkins, $45; J. Heaney, $8.96; W. C. Heptonstall, $10; H. J. Holman, $35.67; Imperial Oil, Ltd., $658.06; King's Printer, $39.71; R. Lampart, $3.60; Lands Department, $2.50; J. H. Lawrence, $68.20; licences, $90; H. T. Lock, $8; London & B.N.A. Co., Ltd., $6; Mainland Navigation Co., Ltd., $2.80; Maple Ridge Lumber Co., Ltd., $59.33; W. J. Marriott, $6.25; Mission Gas & Storage Co., Ltd., $408.27; McLennan, McFeely & Co., Ltd., $32.08; W. H. Norrish, $200; W. Orcutt, $18.89; H. Over, $19.50; postage, $34; Queensboro Shipyards, $680; R. F. Reddecliff, $25; Remington Typewriter Co., Ltd., $43.20; Ridley-Kennedy, Ltd., $105.35; River Lumber Yards, $11.47; H. C. Ross, $475; S. L. Sharpe, $56.20; Silverdale Lumber Co., Ltd., $250.18; Steamer "Shuswap," $105; Timberland Lumber Co., $87.26; L. Towell, $280; Tupper & Steele, Ltd., $63.30; Underwood Typewriter Co., $4; Vancouver Engineering Works, Ltd., $452.53; Waterous Engine Works, Co., Ltd., $90.50; Westminster Iron Works, $462.29; Wilkinson Co., Ltd., $42.05; F. Wood, $2.75; C. L. Worthington, $15.10		
		$57,623 57	
	By cash	2,615 75	
			$ 55,007 82
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $4,399.25		
	Miscellaneous:		
	C. Anderson, $35.80; Anderson & Lusby, $449.68; P. Bain, $1,178.29; M. Bouchir,		
	Carried forward	$ 55,007 82	$577,846 36 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Dewdney District—Continued.			
	Brought forward	$ 55,007 82	$577,846 36	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	$1,761.93; B.C. Drafting & Blue Print Co., 95c.; B.C. Telephone Co., $18; Brunette Saw Mill Co., Ltd., $806.59; C. Burton, $103.50; Dominion Express Co., $6.40; Firs, Ltd., $30.09; R. S. Fotheringhame, $2.50; S. M. Gibbs, $18; A. Gosman, $7.50; T. Gourlay, $18; D. Graham, $2; Hammond Cedar Co., Ltd., $19; Hume & Rumble, $12.60; J. H. Lawrence, $3.50; H. T. Lock, $45; T. R. McEwan, $18; Manzer Bros., & Bain, $19.87; Maple Ridge Lumber Co., $480.92; A. G. Mouldy, $16.50; F. Newton, $15; Northern Electric Co., Ltd., $14.22; Port Coquitlam Transfer Co., $96; Silverdale Lumber Co., $351.35; R. T. Stewart, $33; G. Summerville, $38; G. A. Ward, $10; Western Power Co., Ltd., $240; Western Iron Works, $98.54; F. Wood, $12.47	10,362 45		
	Protection of River-banks:			
	Nicomen Island:			
	P. Bain, $49.33; H. Brown, $18.75; S. M. Gibbs, $46; J. H. Lawrence, $42.40; pay-lists, labour and team-work, $694.39	850 87		
	Total expenditure, Dewdney District		66,221 14	
	Esquimalt District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, P. J. Campbell, salary $1,195; expenses, $1,584.61			
	Clerk, J. L. Bowden, salary $725			
	Pay-lists, labour and team-work, $26,707.03			
	Miscellaneous:			
	Albion Stove Works, Ltd., $146; Armstrong Bros., $232.35; Automotive Equipment House, $22.50; Begg Motor Co., Ltd., $5; B.C.E.R. Co., Ltd., $32.66; B.C. Telephone Co., Ltd., $66.30; H. R. Brown, $20.90; Canadian Explosives, Ltd., $233.85; Canadian Fairbanks-Morse Co., Ltd., $10.75; C.P.R. Co., 70c.; Colonist P. & P. Co., Ltd., $4.20; Dominion of Canada Guarantee & Accident Insurance Co., $7.50; Drake Hardware Co., Ltd., $2; H. Edwards, 75c.; Esquimalt Water Works Co., $7.50; C. H. Eve, $15.50; W. S. Fraser & Co., Ltd., $325.42; Hawkins & Hayward, $8.10; J. Heaney, $79.50; H. J. Holman, $9.10; Hudson's Bay Co., $62.40; Imperial Oil, Ltd., $481.32; Island Blue Print & Map Co., $7.14; Jameson & Willis, Ltd., $70.34; F. Jeune & Bro., Ltd., $301.47; King's Printer, $175.73; Lemon-Gonnason Co., Ltd., $26.67; licences, $93; Lillie & Woods, $22.50; W. Mable, $1.50; Macey-Abell Co., Ltd., $1.50; Mackay & Gillespie, Ltd., $44.25; H. C. Martin, $8.25; E. B. Marvin & Co., $28.60; J. McCreight, $55.60; McDonald &			
	Carried forward		$644,067 50	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Esquimalt District—Continued.		
	Brought forward	$644,067 50	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	Nicol, $265.80; Nag Paint Co., Ltd., $24.95; National Drug & Chemical Co. of Canada, Ltd., $22.97; E. C. Parker, $10.50; Pedlar-People Ltd., $2.767; L. L. Phillips, $58.69; T. Plimley, $586.75; postage, $48.91; Reliable Transfer Co., $5.50; Revercomb Motor Co., $105.21; M. Roelofson, $19.40; Scott Grocery, $3.15; S. L. Shields, $9.55; H. W. Simpson, $100.40; E. A. Taylor, $54; Thoburn Garage, $8.65; E. Thomas, $11; Times P. & P. Co., Ltd., $5.10; Turner, Beeton & Co., Ltd., $3.03; Victoria Machinery Depot, Ltd., $38.37; Waites & Knapton, $1; W. H. Wilson, $3	$ 36,975 42	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $9,346.46		
	Miscellaneous:		
	W. Angus, $4.50; R. H. Barker, $33.89; R. C. Barrington-Foote, $1.75; Cameron Lumber Co., Ltd., $766.62; Canadian Explosives, Ltd., $2.48; Charters & Findell, $23.04; Corporation of Esquimalt, $1,000; Evans, Coleman & Evans, Ltd., $15.27; W. S. Fraser & Co., Ltd., $607.16; Happy Valley Mills, Ltd., $11.85; C. A. Helgesen, $16; H. C. Martin, $1; E. B. Marvin & Co., $103.99; J. & W. Milligan, $54; A. McBeath, $8.90; MacLeod's Grocery, $3.60; P. McQuade & Son, $21.46; Nag Paint Co., Ltd., $4.20; J. E. Painter & Son, $20; J. W. Potter Mill Co., $12; Scott & Peden, $261.09; Shawnigan Lake Lumber Co., Ltd., $1,072.35; H. W. Simpson, $15.40; Vancouver Island Lumber Supply Co., Ltd., $1,917.93; Waites & Knapton, 75c.; C. Woodruff, $8.50	15,334 19	
	Total expenditure, Esquimalt District		52,309 61
	Fernie District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	General Foreman, L. E. McDonald, salary $2,160, expenses $1,589.25		
	Clerks:		
	D. Fraser, salary $750; J. McDougall, salary $300		
	Pay-lists, labour and team-work, $39,672.16		
	Miscellaneous:		
	P. Adlard, $50.20; Adolph Lumber Co., Ltd., $3; J. W. Beech, $20.60; M. A. Berigan, $164.06; A. Birnie, $19; G. Bowen, $11.50; Canadian Oil Companies, Ltd., $107.81; C.P.R. Co., $126.89; W. Carlin, $39; F. Carlson, $1.25; T. Costanzo, $331.; Cranbrook Saw Mills, Ltd., $354.58; Crow's Nest Pass Coal Co., Ltd., $122.56; A. Cummings, $8.85; W. W. Dicken, $5.50; Domin-		
	Carried forward	$696,377 11	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Fernie District—Continued.		
	Brought forward	$696,377 11	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	ion Express Co., $2.10; Duthie Co., $385.32; East Kootenay Lumber Co., Ltd., $11.14; Elk Valley Lumber Co., Ltd., $13.75; Fernie Cartage, $1.50; Fernie Free Press, $24.74; Fernie Garage, $133.67; W. L. Foisey, $3.10; Forest & Mines Products, Ltd., $15.54; Fort Steele Trading Co., Ltd., $122.30; R. L. T. Galbraith, $5; G.N.R. Co., $13.20; H. J. P. Gregson, $36; A. T. Hamilton, $23.35; R. Hirtz, $12.35; Imperial Oil, Ltd., $107.32; W. E. Johnson, $2.25; Kennedy & Mangan, $22.40; King's Printer, $6.81; R. C. Kirkpatrick, $2; Kootenay Garage, $44.80; Kootenay Telephone Lines, Ltd., $58.20; J. Lancaster, $161.28; J. J. Miller, $3.25; G. A. Millett, $6.20; A. McDonald & Co., $46.75; McLean's Book & Drug Store, $2.30; National Drug & Chemical Co. of Canada, Ltd., $16.20; F. Parks & Co., $341.45; W. W. Parnell, $25; J. Podbielancik, $86.45; postage, $23; J. D. Quail, $214.61; G. Ross, $96.10; Ross Saskatoon Lumber Co., Ltd., $57.05; N. E. Suddaby, $1.75; Trites-Wood Co., Ltd., $1,052.65; W. Woodland, $5	$49,023 09	
	By transfers to "B.C. Loan Act, 1919"	3,584 27	$ 45,438 82
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $12,625.97		
	Miscellaneous:		
	Baker Lumber Co., Ltd., $1,396.35; M. A. Berigan, $135.71; A. Birnie, $6.25; G. Bowen, $12.50; Cameron Lumber Co., Ltd., $2,536.70; Crow's Nest Pass Lumber Co., Ltd., $1.40; C.P.R. Co., $1,322.62; Cranbrook Saw Mills, Ltd., $349.47; Crow's Nest Pass Coal Co., Ltd., $138.52; Duthie Co., $11; East Kootenay Lumber Co., Ltd., $1,490.41; M. Edmunds, $4; Electric Blue Print & Map Co., 60c.; Elk Valley Lumber Co., $1,187.55; Fernie Garage, $73.30; Fort Steele Trading Co., Ltd., $32.20; R. F. Haigh, $2; A. T. Hamilton, $28.50; Heaps Engineering Co., Ltd., $4,429.36; Imperial Oil, Ltd., $87.49; W. E. Johnson, $4.50; Kennedy & Mangan, $778.10; G. Lake, $12.40; W. J. Lovering & Co., $34.25; F. R. Macdonald, $12; Morrissey, Fernie & Michel Railway, $8.78; A. McDonald & Co., $23.55; McGladrey Bros., $76; P. D. McKee, $3.50; J. A. Osborne, $23.79; J. Podbielancik, $4.15; Rainbow Creek Lumber Co., $96.74; G. Ross, $73.10; Ross Saskatoon Lumber Co., $14.76; C. St. Jacques, $4.25; Trites-Wood Co., Ltd., $210.45; Western Canada Wholesale Co., Ltd., $517.50; Workingmen's Co-operative Society, $2.75	27,772 47	
	Carried forward	$ 73,211 29	$696,377 11 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Fernie District—Continued.			
	Brought forward	$ 73,211 29	$696,377 11	$ 349,131 74
	Protection of River-banks:			
	Elk River:			
	M. A. Berigan, $29.96; Canadian Oil Companies, Ltd., $122.22; Crow's Nest Pass Coal Co., Ltd., $2.65; A. Cummings, $6.25; Duthie Co., Ltd., $30.29; Elk Valley Lumber Co., Ltd., $2,048.95; City of Fernie, $544.23; Fernie Garage, $7.50; F. Gallagher, $915.12; Kennedy & Mangan, $27.12; J. Podbielancik, $5.80; Trites-Wood Co., Ltd., $180.88; pay-lists, labour and team-work, $4,571.75			
		$8,492 72		
	By Crow's Nest Pass Coal Co., Ltd.	3,250 00		
		5,242 72		
	Total expenditure, Fernie District		78,454 01	
	Fort George District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foremen:			
	D. Menard, salary $1,440, expenses $864.90; H. Taylor, salary $2,160, expenses $1,930.16			
	Stenographers:			
	E. Bustin, salary $42; K. Robertson, salary $1,010			
	Pay-lists, labour and team-work, $57,477.08			
	Miscellaneous:			
	Father Allard, $4.25; A. P. Anderson, $86.24; B. S. Atkinson, $186.59; Austin Co., $2,589.26; J. E. Bateman, $174; H Beaton, $88.90; J. E. Beattie, $60; S. G. Bevier, $1; J. M. Blackstock, $5; W. Blair, $319.75; H. Bourque, $12; L. M. Bower, $13.08; H. Brindemour, $20.55; B.C. Equipment Co., Ltd., $109.10; Bronger & Flynn, $13.05; Brown, Fraser & Co., Ltd., $434.16; F. P. Burden, $32.25; M. E. Burger, $39.40; R. L. Bybee, $18; C. Byers, $5; Canadian Explosives, Ltd., $2,053.94; Canadian Express Co., $59.11; Canadian Fairbanks-Morse Co., Ltd., $50.40; Canadian National Railways, $24.88; Central Interior Printing Co., $8.84; City Cartage & Transfer Co., $20.97; C. Clay, $3.40; T. G. Clay, $15; C. B. Cliff, $28.20; D. L. Cornock, $82; R. Crum, $1.90; G. Davey, $1; C. P. Deykin, $120; Dickinson & Sons, $102.20; F. Dyhrman, $30; A. Eaton & Sons, $12; Edmonton, Dunvegan & British Columbia Railway Co., $36.72; J. Enemark, $3,172.87; W. Erhorn, $15; T. H. Evans, $640.12; W. H. Fairis, $182.98; J. Forsythe, $2; Fort George Drug Co., $40.35; J. A. Freeman, $50; A. S. Gardner, $18; Gayer & Connelly, $155.85; Giant Powder Co. of Canada, Ltd., $993.42; R. C. Glover, $4; Goodman Supply Co., $139.94; G.T.P. Railway Co., $511.35; J. W. Hagley, $101.50; W. Harper, $45; G. C. Hartley, $560.85; J. E. Hartshorn, $32; F. Hasler, $11.25; E. Hassard, $72.45;			
	Carried forward		$774,831 12	$ 349,131 74

No. of Vote.	SERVICE.	Expended.

DEPARTMENT OF PUBLIC WORKS—*Continued.*

251. ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*

Fort George District—Continued.

Brought forward ..... $774,831 12 $ 349,131 74

Roads and Streets—*Continued.*
Maintenance and Repairs—*Continued.*
Miscellaneous—*Continued.*
J. Hatch, $50; E. Havelka, $6; W. M. Henderson, $120.20; J. Hewitt, $11; F. Hofercamp, $439.92; O. J. Hoffstrom, $119.73; F. Hoskins, $5.40; K. A. Houghtaling, $10.35; Howe & McNulty, $11; W. Howieson, $297.15; A. J. Hubbard, $4.76; D. Hudson, $20; Hudson's Bay Co., $76.80; Hughes Bros., $38.25; Imperial Oil, Ltd., $26.92; Ingham Bros., $374.45; H. E. James, $38; F. Jeune & Bro., Ltd., $756; H. Johnson, $22.50; J. Johnson, $403.90; M. Johnson, $35.62; W. Johnson, $24; F. J. Johnston, $1,551; J. M. Johnston, $449.25; J. Keener, $64.50; J. Klann, $22.25; Kline & MacKeen, $192.86; J. R. Knight, $541.25; J. Landry, $50; Leith Bros., $950.35; licence, $15; E. Lipsett, $722.65; G. Little Lumber Yards, $217.46; T. R. Lloyd, $356.26; Long Bros., $60; J. Malgones, $33.25; Marshall-Wells Alberta Co., Ltd., $379.96; S. M. Maysmith, $9.30; J. W. Miers, $27.70; A. Miller, $113.20; W. J. Milne, $2,033.75; T. Mitchell, $64.75; J. A. Morgan, $40; Mussen's, Ltd., $208.20; J. P. Myers, $2; McBride Trading Co., $99.94; R. C. McCorkell, $1,757.85; A. R. McDonnell, $9.60; F. G. McDonald, $10; E. C. McGeachy, $100.14; M. C. McKay, $3; W. A. McKeen, $129; National Drug & Chemical Co. of Canada, Ltd., $62.90; Nechako Chronicle, $1; Nechako Drug Co., $100.10; Nechako Machine Shop, $87.44; Nechako Trading Co., $186.55; J. Newsome, 80c.; H. N. North, $109.44; Northern Hardware Co., $795.12; Northern Supply Co., $72.70; P. Olinger, $100; Pacific Cartage, Ltd., $2; J. B. Palmgren & Son, $343.50; F. Park, $1.575; Paterson Clothing House, $32; B. Pick, $11.25; P. Pinker, $315; Porter Hay & Grain Co., $53.25; Pouce Coupe Trading Co., $2.65; M. A. Priestlien, $6; Prince George Drug Co., $22.85; Prince George Manufacturing Co., $2; W. Ranger, $50; C. C. Reid, $3.50; R. Reid, $10; Riley & McCormick, Ltd., $715.15; G. Romano, $140; Rush Transfer & Storage, $15.87; A. Saffren, $64.35; Sawyer-Massey Co., Ltd., $13; W. F. Schultz, $27; Seebach & Hubble, $418.08; J. Shaw, $33.15; J. E. Shearer, $120; M. A. Sibley, $73.10; O. H. Somers, $5; E. Smedley, $11.94; E. B. Smith, $54; T. P. Smithers, $4.648; T. G. Steel, $60.87; W. B. Steele, $17.25; F. Stevens, $16.45; A. Stewart, $63; A. M. Stewart, $60; C. L. Stuart, $340.10; D. H. B. Taylor, $22.50; H. Taylor (sundry accounts), $8.15; S. V. Tittemore, $15.50; I. Tremblay, $8; D. Turcotte, $837.90; U. G. G. Sawmills, $285.55; Vanderhoof Board of Trade, $60; W. D. Vincen, $34.17; Webster, Black &

Carried forward ..... $774,831 12 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Fort George District—Continued.			
	Brought forward		$774,831 12	$ 349,131 74
	Roads and Streets—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Co., $13.17; Welch & Stewart, $90; R. White, $6.50; G. B. Williams, $110.70; H. C. Willson, $43.25			
		$104,018 38		
	By transfers	14,261 77		
			$ 89,756 61	
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $44,517.98			
	Miscellaneous:			
	A. P. Anderson, $194.78; H. C. Atkinson, $108.30; Austin Co., $273.80; M. Averill, $15.50; C. Barrett, $33; J. E. Bateman, $150; R. Bishop, $90; B.C. Express Co., $3.70; B.C. Mills, Timber & Trading Co., $982.82; W. Bunting, $34.65; M. E. Burger, $31.60; C. Byers, $5; C. Calhaisen, $29.16; Canadian Express Co., $2.95; Canadian National Railways, $107.10; Canoe River Timber & Trading Co., $6.02; J. E. Carling, $62; City Cartage & Transfer Co., $2.50; J. Clark, $5.76; N. M. Clarke, $21.75; F. G. Clay, $15; J. Collinson, $143.76; D. L. Cornock, $28.95; G. Corry, $124.82; J. Coughlan & Sons, Ltd., $1,919.34; Dewey Saw Mills Co., $65.37; Dezell & Fowler, $5; J. Dickson, $20; Dominion Government Telegraphs, $18.49; J. Dufresne, $21; Edmonton, Dunvegan & British Columbia Railway Co., $29.29; Electric Blue Print & Map Co., $12.40; E. W. Erickson, $38.80; S. H. & C. Falkus, $334.39; W. H. Farris, $212.36; J. Forbes, $517.55; B. Fournier, $7.25; J. H. Fynn, $919.03; O. N. Gibbs, $9.75; J. Goodman, $18.45; Goodman Supply Co., $153.54; A. Goodwin, $3.65; G. Grimshaw, $6; G.T.P. Railway Co., $205.28; B. Gunderson, $200.44; W. Groat, $315; R. Haney, $15.05; P. Harbeck, $78.98; G. H. Hart, $606.75; G. F. Hart, $54.12; F. H. Haskins, $18.15; J. Hewitt, $15.25; F. Hicken, $7.40; W. Hill, $229; O. J. Hoffstrom, $614.45; A. J. Hubble, $95.13; Hudson's Bay Co., $6.40; Ingenika Gold Mining Co., $273; Ingham Bros., $7.60; F. J. Johnston, $55.01; J. M. Johnson, $175.75; L. Johnson, $51.05; J. N. Keener, $32; J. R. Knight, $156.25; J. Landry, $173.12; S. Lee, $12; Leith Bros., $288.69; E. Liddell, $18.45; B. Lineham, $30.72; G. Little Lumber Yards, $846.60; E. Lloyd, $52.80; T. R. Lloyd, $34; E. Mager, $4; Marshall-Wells Alberta Co., $310.92; F. Micks, $11.80; J. W. Miers, $24.95; E. E. Miller, $6; T. Mitchell, $31.90; McBride Trading Co., $25.78; R. C. McCorkell, $288.72; J. D. McEachern, $20; E. C. McGeachy, $21.10; J. E. McIntosh, $2.50; W. A. McKeen, $17.40; H. McKenzie, $52.50; S. McLean, $570.22; W. D.			
	Carried forward		$ 89,756 61	$774,831 12 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Fort George District—Continued.			
	Brought forward	$ 89,756 61	$774,831 12	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	McNamara, $23.50; Nechako Machine Shop, $2; Nechako Sawmill, $68.28; F. Nelson, $10; Northern Hardware Co., $159.67; J. B. Palmgren & Son, $10; F. C. Partridge, $92.42; E. C. Perry, $45.48; Porter Hay & Grain Co., $11.12; Pouce Coupe Trading Co., $41.65; Prince George Drug Co., $9.40; Prince George Manufacturing Co., $67.50; A. Racine, $2; J. W. Reed, $1; Rolla Lumbering Co., $989.83; Ross & Howard Iron Works Co., Ltd., $10.97; W. B. Simpson, $6; J. Smith, $50; W. Somerton, $25.76; W. B. Steele, $24.75; A. Stewart, $90; C. L. Stuart, $14.55; J. T. Stubley, $8.16; G. Swanston, $20.20; Swift Creek Lumber Co., Ltd., $516.50; H. Taylor, $25.37; H. Tremblay, $11.50; W. D. Vincent, $140.28; Webster, Black & Co., $1,534.82; R. White, $23.25; Wilkinson Co., Ltd., $146.01; G. B. Williams, 50c.; H. Wood, $15; W. Wright, $229.03; transfers from Roads, $1,534	63,319 34		
	Total expenditure, Fort George District		153,075 95	
	Grand Forks District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, J. A. McCallum, salary $2,160, expenses $548.55			
	Pay-lists, labour and team-work, $19,641.83			
	Miscellaneous:			
	J. A. Bertois, $3.75; B.C. Telephone Co., Ltd., $7.80; C.P.R. Telegraphs, 51c.; Dominion Express Co., $2.80; Forest Mills of B.C., Ltd., $28.48; Granby Consolidated Mining & Smelting Co., Ltd., $22.50; G. F. Furniture & Hardware Co., $6.75; Grand Forks Garage, $192.40; Grand Forks Sawmills, Ltd., 80c.; Grand Forks Transfer, $9; H. J. Holman, $35.67; Imperial Oil, Ltd., $144.20; Kettle Valley Railway Co., $3.38; King's Printer, $10.20; licences, $82.32; W. Liddicoat, $65.95; Manly's Hardware, $408.30; Matthews Garage, $89.40; Miller & Gardner, $155.30; J. R. Mooyboer, $199.05; National Drug & Chemical Co. of Canada, Ltd., $15.95; Norris Lumber & Box Co., Ltd., $50.45; postage, $17; R. G. Ritchie, $5.10; J. Zebroff, $56.25	$ 23,963 69		
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $1,281.15			
	Miscellaneous:			
	C.P.R. Co., $66; F. Coryell, $40.25; Forest Mills of B.C., Ltd., $297.94; Granby Consolidated Mining, Smelting & Power Co., $120.40; Grand Forks Furniture Co., $10; Grand Forks Transfer, $56; C. Kirk, $548.95; Manley's Hardware,			
	Carried forward	$ 23,963 69	$927,907 07	$ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Grand Forks District—Continued.			
	Brought forward	$ 23,963 69	$927,907 07	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	$77.45; Midway Sawmill Co., $574.47; J. R. Mooyboer, $58.70; Norris Lumber & Box Co., Ltd., $25.32	3,156 63		
	Total expenditure, Grand Forks District		27,120 32	
	Greenwood District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, J. Kerr, salary $2,160; expenses $1,086.17			
	Pay-lists, labour and team-work, $23,118.49			
	Miscellaneous:			
	E. Bailey & Co., $2; Benson & Wilson, $52.25; A. Bravard, $10; B.C. Telephone Co., Ltd., $18.90; R. A. Brown, $17.30; J. H. Bush, $22.85; C.P.R. Telegraphs, $1.91; Christensen & Sons, $50.32; G. Clerf, $2.50; L. Clery, 70c.; I. Crawford, $5.65; DeWitte Mercantile Store, $24.10; W. H. Docksteader, 25c.; Dominion Express Co., $2.65; J. Dumont, $129.68; W. B. Fleming, $8.50; T. M. Gulley & Co., $99.85; R. W. Halcrow, $2; H. Holmes, $10.80; F. F. Ketchum & Co., $614.13; Kettle Valley Railway Co., $3.12; King's Printer, $2.05; Lee & Bryan, $71.45; O. Lofstad, $10; Midway Sawmill Co., $262.81; Mussen's, Ltd., $39.20; D. McIntosh, $5; J. G. McMynn, $36.12; National Drug & Chemical Co. of Canada, Ltd., $15; W. O'Donnell, $10.15; postage, $15; Rock Creek Trading Co., Ltd., $300.79; G. H. Rusch, $3; Zamora Lumber Co., $143.79	$ 28,358 48		
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $1,604.20			
	Miscellaneous:			
	B.C. Mills Timber & Trading Co., $1,079.93; Christensen & Sons, $79.80; L. Clery, $1; De Witte Mercantile Store, $4.31; W. H. Docksteader, $2; Douglas Creek Lumber Co., $71.30; M. Dumont, $29.95; W. B. Fleming, $26.50; J. K. Fraser, $22.65; King's Printer, $10; The Ledge (Greenwood), $13.40; E. Madge, $1.60; Midway Saw Mill Co., $36.29; Nelson Iron Works, Ltd., $83.25; W. O'Donnell, $60.80; Rock Creek Trading Co., $30.98; Vancouver Sun, $48.90; Zamora Lumber Co., $293.64	3,500 50		
	Total expenditure, Greenwood District		31,858 98	
	Islands District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, P. J. Campbell, salary $965, expenses $489.42			
	Clerk, J. L. Bowden, salary $750			
	Pay-lists, labour and team-work, $24,263.13			
	Carried forward		$986,886 37	$ 349,131 74

No. of Vote.	SERVICE.	Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Islands District—Continued.		
	Brought forward	$986,886 37	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous:		
	P. Bennett, $27.15; S. Booth, 65c.; B.C. Telephone Co., Ltd., $25.10; Burrill Bros., $33.93; W. O. Byers, $1.50; M. Calthorp, $17.50; Canadian Explosives, Ltd., $204.29; C.P.R. Telegraphs, 50c.; R. S. W. Corbett, $75.80; D. Craig, $11.50; J. Critchley, $84.05; A. Deacon, $5; Deep Cove Motor Service, $5; J. Drysdale, $24.45; R. P. Edwards, $13.55; Farmers' Institute, Ganges, $85.80; W. S. Fraser & Co., Ltd., $3; Fruit-growers' Association, Ganges, $39.75; Genoa Bay Lumber Co., Ltd., $56.77; A. Georgeson, $6; K. S. Gillie, $7.75; N. W. Harrap, $25; Island Blue Print & Map Co., $17.75; J. Johnston, $11.60; H. Keifer, $14; King's Printer, $56.75; G. Lassiter, $8; Layard, Swan & Gamble, Ltd., $91.35; licences, $34.80; D. Macfayden, $49.35; D. Menzies, $64; G. T. Michell, $2.70; Mouat Bros. & Co., Ltd., $315.60; W. A. McAfee, $34.65; Nag Paint Co., Ltd., $19; National Drug & Chemical Co. of Canada, Ltd., $22.98; National Motor Co., Ltd., $2.83; T. Plimley, $525; postage, $30; Saltspring Island Trading Co., Ltd., $28.90; Sidney Mills, Ltd., $116.86	$ 28,667 71	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $2,268.13		
	Miscellaneous:		
	W. S. Fraser & Co., Ltd., $6.05; H. B. Harris, $37.10; J. O. Heck, $13.60; Mouat Bros. & Co., Ltd., $387.35; W. A. McAfee, $14.85	2,727 08	
	Wharves:		
	Maintenance and Repairs:		
	Miscellaneous:		
	Mouat Bros. Co., Ltd.	9 48	
	Total expenditure, Islands District		31,404 27
	Kamloops District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	General Foreman, A. Dalgleish, salary $2,160, expenses $1,312.64		
	Clerk, N. McNicol, salary $30		
	Stenographer, K. B. Gillman, salary $769.17		
	Pay-lists, labour and team-work, $52,888.09		
	Miscellaneous:		
	Adams Lumber Co., Ltd., $213.06; M. A. Bedard, $70.65; H. Bischoff, $25; R. C. Blackbourn, $6.75; A. Bothamley, $102.24; R. P. Bradley, $147.75; B.C. Equipment Co., Ltd., $415.70; R. H. Brett, $109.66; Brown, Fraser & Co., $34.04; L. C. Byers, $21.30; Canadian Explosives, Ltd., $6,414.47; Canadian Fairbanks-Morse Co., Ltd., $101.54; Canada Ignot Iron Co., Ltd., $1,671.89; Canadian National Railways,		
	Carried forward	$1,018,290 64	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Kamloops District—Continued.		
	Brought forward	$1,018,290 64	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	$74.69; C.P.R. Co., $168.77; City of Kamloops, $24.15; J. W. Clifford, $38.25; J. R. Colley, $1,336.29; N. S. Dalgleish, $1,421.46; Demmon Motor Co., $23; Dominion Express Co., $81.08; England & Son, $2.80; W. J. Ellis & Co., $159.89; G. Fennell, $41.19; J. A. Fraser, $250; F. W. Gale, $72.50; A. Galloway, $32.68; A. R. Goodwin, $4.50; C. Gower, $7; Granite Trading Association, $23.55; W. Greenlees, $82.50; W. Hargraves, $69.32; W. Henstridge, $90; Hedley Shaw Milling Co., $1,767.30; J. N. Hill, $19.50; H. J. Holman, $71.35; E. W. Hoole, 65c.; Imperial Oil, Ltd., $208.25; J. H. Jackson & Co., $7.30; Johnston & Co., Ltd., $1; W. H. Jones, $40; Jones & Rant, $77.60; Kamloops Battery Service, $4.75; Kamloops Harness Co., $143.70; Kamloops Plumbing Co., $7.80; Kamloops Sash & Door Factory, $3.18; Knutsford Store, $2.50; T. Leslie, $24.95; R. H. Lyons, $336.04; Macbeth & Miller Lumber Co., $49.89; Marlatt & MacKenzie, $411.20; S. M. Maysmith, $8.05; J. Milton, $35; Moilliet & Finley, $5.90; Monte Creek Trading Co., Ltd., $15.25; Morley-Pauline Rubber Co., $347.60; Mt. Olie Farmers' Exchange, Ltd., $13.40; Mussen's, Ltd., $135.24; J. McCarten, $100; C. G. McConnach, $23.50; S. J. McDiarmid, $51.95; J. McKinnon, $10; A. McLean & Co., $25.50; National Drug & Chemical Co., Ltd., $123.36; W. Newnes, $6.35; Northern Construction Co., $19.83; Notch Hill Trading Association, $20.84; Patent Holding Co., $46; D. Power, $24.95; A. J. Pringle, $30.77; J. Reedman, $5.70; I. R. Reilly & Co., $16.80; Sharp & Leader, $216; S. M. Studebaker, $731.25; W. T. Syms, $3; F. Syson, $19.45; A. C. Taylor & Co., $6.15; A. Thomson, $157.15; H. Turner, $4.79; Victoria Garage, $24.50; Ward Motor Co., $821.28; Webb-Barford Machine Co., $11.45; Wilcox-Hall Co., Ltd., $1,383.26; T. Wilson & Co., $3.20; Wood, Vallance & Leggat, Ltd., $20.90; Wyse & Harmon, $75.85; J. J. Young, $5.50	$ 78,224 25	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $15,821.14		
	Miscellaneous:		
	Adams River Lumber Co., $3,445.33; R. C. Blackbourn, $2.75; A. E. Boyde, $100; B.C. Mills T. & T. Co., $3,195.79; C.N.R. Co., $242.41; C.P.R. Co., $858.29; City of Kamloops, $508.90; N. S. Dalgleish, $146.29; Electric Blue Print & Map Co., $2.70; W. J. Ellis & Co., $14; O. G. Freeman, $308.06; W. Greenlees, $55.44; W. Hargraves, $16.55; B. G. Harrington, $18; J. A. Heitman, $99.33; Kamloops Sash & Door Factory, $3.25; H. L. Latremouille, $172.80; W. Louie, $77; Macbeth & Miller, Ltd., $336.11; F. R.		
	Carried forward	$ 78,224 25	$1,018,290 64 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Kamloops District—Continued.			
	Brought forward	$ 78,224 25	$1,018,290 64	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Macdonald, $40.97; Mallery Drug Co., Ltd., $7.50; J. Milton, $10; Ross & Howard Iron Works Co., Ltd., $355.73; Savona Stores, $7.30; Sharp & Leader, $43.50; F. Syson, $11.70; A. G. Talbot, $2.52; A. Thomson, $27.95; H. Turner, $13.50; C. L. Wain, $12; Wilcox-Hall Co., Ltd., $398.45; T. Wilson & Co., $3.60	26,358 86		
	Total expenditure, Kamloops District		104,583 11	
	Kaslo District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, J. D. Moore, salary $2,160, expenses $910.40			
	Pay-lists, labour and team-work, $34,419.21			
	Miscellaneous:			
	F. E. Archer Hardware Co., Ltd., $136.55; Armstrong Bros., $21.85; J. F. W. Aylmer, $2.25; B.C. Equipment Co., Ltd., $56; B.C. Telephone Co., Ltd., $30.05; Byers, Giegerich, Green Co., Ltd., $149.32; Burden & Watson, $15.19; Canadian Explosives, Ltd., $66.81; Canyon City Lumber Co., Ltd., $24.90; Consolidated Mining & Smelting Co., Ltd., $7.80; Cranbrook Sash & Door Co., Ltd., $485.06; Creston Mercantile Co., $10.50; A. C. Cummins, $33; A. J. Curle, $5; E. Eggan, $19.65; G. A. Earl, $23.25; W. B. Embree, $30; J. H. Fulmer, $73.85; Giant Powder Co. of Canada, Ltd., $93.80; H. Giegerich, $2; Hardware & Furniture Supply Co., $63.60; J. Healy, $55; Kaslo Transfer Co., $257.50; King's Printer, $1.42; La Brash & Rawlings, $16.64; F. J. le Beau, $4; E. Mallandaine, $399.66; F. R. Moore, $22.50; W. Morrow, $26.50; Mussen's, Ltd., $34.64; M. McLeod, $8.80; National Drug & Chemical Co. of Canada, Ltd., $47.05; Nelson Hardware Co., $575.51; F. Parks & Co., $12; Quance Lumber Co., Ltd., $73.01; S. A. Speers, $520.46; J. A. Spiers, $41.74; H. Spence, $25; W. Simpson, $53.35; Trout Lake Shingle Mills, 50c.; T. O. Wilson, $15; J. B. Winlaw, $114.43	$ 41,144 75		
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $8,936.67			
	Miscellaneous:			
	Byers, Giegerich, Green Co., $17.90; W. G. Campbell, $16.75; Canyon City Lumber Co., Ltd., $205.66; Creston Mercantile Co., $40; Dominion Express Co., $16.40; S. W. Fraser, $283; J. H. Fulmer, $2.50; Heaps Engineering Co., Ltd., $1,174.34; Kaslo Transfer Co., 86c.; E. Mallandaine, $50; Mrs. McCarthy, $22.20; M. McLeod, $3; Nelson Hardware Co., $21.91; Nelson Iron			
	Carried forward	$ 41,144 75	$1,122,873 75	$ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Kaslo District—Continued.			
	Brought forward	$ 41,144 75	$1,122,873 75	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Works, Ltd., $102.15; F. Palmer, $18; Paulson-Mason, Ltd., $110.80; Quance Lumber Co., Ltd., $139.24; W. Ramsay, $2.35; W. Simpson, $18.38; S. A. Spears, $5.10; West Transfer Co., $23.16; J. B. Winlaw, $988.24; Wood-Vallance Hardware Co., Ltd., $254.09	12,452 70		
	Wharves:			
	Maintenance and repairs:			
	Pay-lists, labour, $133.25			
	Miscellaneous:			
	Quance Lumber Co., Ltd., $232.06; W. Simpson, $48.41	413 72		
	Protection of River-banks:			
	Kaslo Creek:			
	Pay-lists, labour, $75			
	Lardeau River:			
	Pay-lists, labour, $147.75	222 75		
	Total expenditure, Kaslo District		54,233 92	
	Lillooet District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, J. K. More, salary $2,160, expenses $1,067.37			
	Pay-lists, labour and team-work, $53,187.74			
	Miscellaneous:			
	G. Anderson, $40; Ashcroft Hotel, $3; F. Baker, $2.25; A. Beaubien, $108; F. M. Becher, $62; G. Beloud, $237.65; J. Bishop, $20; W. Bocking, $20; A. Boitano, $1; J. G. Boyd, $27.20; M. Boyd, $86.60; S. S. Boyd, $55.50; Boyd & Borrowman, $195; Bridge Creek Cattle Ranch, $60.70; B.C. Cattle Co., Ltd., $44; Canada Ingot Iron Co., Ltd., $1,063.05; C.N.R., $1.47; P. Carigan, $4; Carson's Ranch, $694.30; E. C. Cassady, $50; Chilco Ranch, $16.45; H. G. Coldwell, $47; C. J. Cover, $69; D. Craig, $26.50; L. J. Crosina, $2.50; B. Cullen, $17.40; M. Cunningham, $20; W. Davidson, $50; J. Dickey, $54.75; C. Doering, $82; Dominion Government Telegraphs, $149.65; T. H. Dougherty, $707.47; W. G. Duguid, $151.77; M. Dumond, $928.62; F. W. Engeman, $173.31; G. Fairbairn, $3; G. Forbes, $41.25; M. Foster, $25; H. Fraser, $3.75; R. Fraser, $1,071.15; Fraser & Mackenzie, $76.51; Giant Powder Co. of Canada, Ltd., $2,899.04; F. H. Gottfriedson, $8; W. Grinder, $112; G. Haller, $44.50; O. T. Hance, $21; E. O. Hansen, $40; Henderson & Goodrich, $3; Highland Ranch, $45; W. Hing, $1.95; T. J. Hodgson, $58.95; H. P. Horan, $5; Hotel, Hat Creek, $640.29; T. C. Hurley, $52.50; Hurley & Prosser, $160.04; W. M. Huston, $5.25; Imperial Oil, Ltd., $306.19; Inland Express Co., Ltd.,			
	Carried forward		$1,177,107 67	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Lillooet District—Continued.		
	Brought forward	$1,177,107 67	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	$6.65; A. W. Jervis, $9.83; C. E. W. Johnson, $40.80; G. Johnston, $5; W. W. Jones, $16; J. King, $4.25; King's Printer, $131.40; C. Kostering, $810.36; G. Lasher, $25; G. Lee, $3; N. Lee, $4.50; licence, $15; Lillooet Water Works, $6; Macey-Abell Co., Ltd., $87; P. Martin, $4.50; F. Michell, $17; A. J. Miller, $27.80; C. Moon, $99.99; W. H. Munroe, $3; Mussen's, Ltd., $34.80; L. McCarthy, $3.50; H. McLowe, $50; P. McMaster, $4.50; B. McNeil, $17.75; National Drug & Chemical Co. of Canada, Ltd., $16.25; I. Ogden, $232.92; Oxford & Templeman, $11.75; B. O'Rourke, $8; M. Ostrander, $86.70; P.G.E.R., $33.96; F. C. Park, $14.50; C. J. Payne, $184.57; J. W. Pearson, $29.55; H. Petrowitz. $126.20; C. A. Phair, $3; J. S. Place, $9; T. W. Peacock, $16; C. R. Pollard, $40; postage, $45.50; G. G. Rebagliati, $72.50; M. Rhynhardt, $2; F. Riley, $67.75; W. S. Ritchie, $445.80; C. Robertson, $20; R. E. Ruddock, $69.75; J. Rush, $99; Sluman & Weir, $14; S. T. Sorenson, $7; H. H. Spencer, $6; J. M. Stuart, $25; F. Watkinson, $268.60; Western Canadian Ranching Co., Ltd., $130; A. J. Whitley, $30; Wilcox-Hall Co., Ltd., $168.17; Wood, Vallance & Leggat, Ltd., $1.20; B. Wright, $15	$ 71,037 92	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $11,943.15		
	Miscellaneous:		
	F. M. Becher, $227.89; A. Boitano, $4; Bridge Creek Cattle Ranch, $4.85; B.C. Cement Co., Ltd., $1,097.06; D. Craig, $11; Craig Lodge, $17; L. J. Crosina, $35.25; B. Cullen, $8; C. Doering, $22.87; W. G. Duguid, $12; M. Dumond, $44.82; G. Fairbairn, $5; R. Fraser, $86.17; Fraser & Mackenzie, $680.66; E. R. Hance, $10.62; F. P. Heller, $60; Henderson & Goodrich, $67.50; Heyworth Bros., $4.65; Highland Ranch, $4; T. J. Hodgson, $426.60; H. P. Horan, $2; Harley & Prosser, $10; T. C. Lee, $8; S. G. Marwick, $16.75; P. McMaster, $147.65; B. O'Rourke, $17.50; P.G.E.R., $237.74; J. Parker, $400; C. A. Phair, $127.86; G. A. Rebagliati, $221.30; H. Reed, $4.29; W. Ritchie, $116.40; J. H. Rush, $18.50; C. San, $6.50; H. H. Spencer, $7.50; Victoria Hotel, $7; F. Walkinson, $7; Wing On Lung, $2.25	16,131 33	
	Total expenditure, Lillooet District		87,169 25
	Nanaimo District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	Assistant District Engineer, H. C. Mann, salary $190, expenses $66.85		
	Carried forward	$1,264,276 92	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Nanaimo District—Continued.		
	Brought forward	$1,264,276 92	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Stenographer, R. H. Wilson, salary $60		
	Pay-lists, labour and team-work, $9,426.64		
	Miscellaneous:		
	G. Bamford, $4; P. Bennett, $40.11; Canadian Western Fuel Co., $66.80; J. H. Clarke, $15.60; H. E. Dendoff, $2; E. & N. Railway Co., 77c.; H. Gibson, $7.80; J. R. Grayshon, $15.20; H. Hargreaves, $5.25; Hodgson & Stobart, $3; Indian Agent, Duncan, $82.40; E. Kermode, $25.80; A. G. King, Jr., $45; A. Leighton, $5; W. H. Morton, $3.33; P. McCape, $36.50; Nanaimo Lumber Co., Ltd., $55.90; National Drug & Chemical Co. of Canada, Ltd., $15.15; E. R. Taylor, $78.95; F. Wagstaff, $1.85; P. White, $14		
		$10,267 90	
	By cash	500 00	
		$ 9,767 90	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $480.50		
	Miscellaneous:		
	P. Bennett, $4.40; Gregson Bros., $22; Nanaimo Lumber Co., Ltd., $132.25; M. E. O'Brien, $14.10	653 25	
	Total expenditure, Nanaimo District		10,421 15
	Nelson District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	General Foreman, P. J. Gallagher, salary $180		
	Pay-lists, labour and team-work, $2,379.75		
	Miscellaneous:		
	A. S. Horswill, $1,194.88; A. G. Lambert Co., $52.16; National Drug & Chemical Co. of Canada, Ltd., $47.10; Nelson Hardware Co., $25.50; Nelson Transfer Co., $13.50; West Transfer Co., $38.50; Western Box & Shingle Mills, Ltd., $149.05; Wood-Vallance Hardware Co., Ltd., $43.70	$ 4,124 14	
	Bridges:		
	Maintenance and Repairs:		
	Miscellaneous:		
	D. M. Burgoyne	126 50	
	Total expenditure, Nelson District		4,250 64
	Newcastle District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	Assistant District Engineer, H. C. Mann, salary $1,140, expenses $582.05		
	Stenographer, R. H. Wilson, salary $450		
	Pay-lists, labour and team-work, $27,224.86		
	Carried forward	$1,278,948 71	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Newcastle District—Continued.		
	Brought forward	$1,278,948 71	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous:		
	R. B. Anderson & Son, $2; C. H. Armour, 95c.; J. Bain, $39.20; P. Bennett, $12.45; B.C. Equipment Co., Ltd., $107; Brown, Fraser & Co., Ltd., $280; Canadian Collieries (Dunsmuir), Ltd., $4.92; City of Duncan, $3; Cowichan Merchants, Ltd., $4.70; W. Dwyer, $102; E. & N. Railway Co., $247.18; A. Frenchie, $17.20; H. Gibson, $30.93; Gregson Bros., $3; S. Jackman, $2.40; F. Jeune & Bro., Ltd., $54.36; J. Johnston, $3; C. Keene, $36; J. Kenyon, $1.20; King's Printer, $58.48; A. J. Kirstin Canadian Co., $124.60; S. M. Maysmith, $53.16; R. Myles, $1.50; A. McDonald, $6.10; National Drug & Chemical Co. of Canada, Ltd., $15.15; Pedlar-People, Ltd., $237; C. Peterson, $58.87; F. Reed, $14.30; W. Rollston & Co., $6.95; G. Rumble, $5.60; J. A. Ryan & Sons, $4.40; Walters & Aitkenhead, $89.50; Western Mercantile Co., Ltd., $25.55; P. White, $18.70; A. B. Wilson, $4.40; R. Wright & Son, $48.75	$ 31,121 41	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $3,087.51		
	Miscellaneous:		
	L. Ashby, $14.55; E. Bailey, $3.25; F. Beban Lumber Co., $408.68; P. Bennett, $9.63; E. D. Comley, $24.55; J. E. Davis, $61; Gregson Bros., $64.50; A. Macdonald, $10; Nanaimo Lumber Co., Ltd., $35.01; New Ladysmith Lumber Co., Ltd., $49.93; D. Nicholson, $499.46; M. E. O'Brien, $97.50; C. Peterson, $140.03; W. Rollston & Co., $7; E. R. Taylor, $23	4,535 60	
	Total expenditure, Newcastle District		35,657 01
	New Westminster District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $181.90		
	Miscellaneous:		
	Barrett Co., Ltd., $430.56; City of New Westminster, $76.32; Gilley Bros., Ltd., $378.68; Valley View Land Co., Ltd., $3,000	$ 4,067 46	
	Total expenditure, New Westminster District		4,067 46
	North Okanagan District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	Assistant District Engineer, R. M. Taylor, salary $2,280, expenses $960.08		
	Clerk, J. J. Mowat, salary $1,370		
	Pay-lists, labour and team-work, $52,295.75		
	Miscellaneous:		
	Armstrong Saw Mill, $19.26; Bell & Pell, $284.40; H. J. Birnie, $2.50; C. D. Bloom, $5;		
	Carried forward	$1,318,673 18	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	North Okanagan District—Continued.		
	Brought forward	$1,318,673 18	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	B.C. Cleaning Works, $11.50; B.C. Equipment Co., Ltd., $133.64; B. L. Brown, $24.90; Canadian Fairbanks-Morse Co., $4.60; C.P.R. Co., $133.11; R. J. Chisholm, $157.70; F. A. Clayton, $32.50; Coldstream Estate Co., Ltd., $3; Corporation of City of Vernon, $380.70; L. H. Davidson, $5; Dominion Express Co., $24.70; M. Dumond, $260; J. M. Edgar, $7.15; H. Ellison, $73.75; Enderby Hardware Co., $11; Falkland General Store, $29.19; H. F. Farmer, $7.25; M. J. Finlayson, & Co., $31.95; J. R. Freeze, $12; Fulton Hardware Co., Ltd., $87.05; J. S. Galbraith & Sons, $69; S. Gilbert, $18; A. L. Godbout, $5; R. K. Haines, $56.73; W. Hall, $10; S. E. Hamilton, $258.74; J. Harwood, $142; A. J. Heywood, $39.95; Hope Bros., $66.35; J. Hull, $23.20; G. A. Johnson, $87.11; King's Printer, $83.54; W. R. Knowles, $12; T. E. Laing, $60.50; F. Langdon, $15.25; LeBlanc & Bessette, $1,018.83; A. Lellman, $18.50; licences, $53.40; B. F. Lloyd, $5; Lumby Saw Mills Co., Ltd., $29.38; MacPhail-Smith Hardware Co., Ltd., $44.90; Mara Trading Co., $14.20; S. M. Maysmith, $73.75; Megaw-Smithers Motor Co., $582.97; J. Meliss, $10; W. Middleton, $6.25; C. W. Mohr, $4.25; R. Moncrieff, $164.56; J. Monk, $226.40; McAusland & Spence, $3.75; S. J. McDiarmid, $65.25; D. J. McKay, $26.35; J. McKay, $69.10; McLaughlin Garage, $50.80; McMahon & Mack, $1; D. McMannus, $68.25; National Drug & Chemical Co., Ltd., $31.10; Neil, Cryderman & Kennedy, $60.50; W. Newnes, $14.75; Okanagan Electric, 75c.; Okanagan Hardware, $124.50; Okanagan Saw Mills, Ltd., $31.39; Okanagan Telephone Co., $103.15; J. D. Olson, $4; C. G. Piper, $26; postage, $105; W. H. Rea, 50c.; W. G. Reid, $3; Remington Typewriter Co., Ltd., $32.75; F. S. Reynolds, $105.55; C. Rosoman, $8; J. L. Ruttan, $25; Salmon Arm Auto Express, $1; I. V. Sander Co., $42; Shields & Co., $95.40; A. Smith & Son, $1.20; J. Tedford, $52.05; H. Tomkinson, $2.10; J. K. Urquhart, $3; Vernon Drug Co., 25c.; Vernon Garage, 80c.; Vernon Lumber Co., $85.25; Vernon Hardware Co., $824.17; Walker Press, $4.50	$ 63,919 60	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $7,808.33		
	Miscellaneous:		
	Bell & Pell, $54.60; F. J. Bossley, $165.94; Brayden & Johnston, $57.55; B. L. Brown, $4.40; G. Butterworth, $10.85; R. J. Chisholm, $15.80; Dominion Express Co., 60c.; Electric Blue Print & Map Co., 60c.; Falkland General Store, $10.45; J. K. Fraser, $316.52; Fulton Hardware Co., $16.63; P. A. Gorse, $8.69; Hardie & Butters,		
	Carried forward	$ 63,919 60	$1,318,673 18 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	North Okanagan District—Continued.			
	Brought forward	$ 63,919 60	$1,318,673 18	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	$184; J. Harwood, $37.50; C. Hoover, $367.25; W. H. Hutchison, $27.50; Johnson & Newberry, $39.15; Kempton & Shaver Garage, $25; LeBlanc Bros. & Bessette, $94.30; R. Moncrieff, $8,159.20; McMahon & Mack, $7.06; W. Newnes, $8; Okanagan Hardware, $15.55; Okanagan Saw Mills, Ltd., $583.10; A. Procter, $132; E. A. Robertson, $2.68; Ross & Howard Iron Works, Ltd., $8.07; J. L. Ruttan Saw Mills, $110.80; Safe, Ltd., $9.50; Salmon Arm Auto Express, $2; Shields & Co., $68.35; A. C. Skaling, $508.25; S. G. Smith Lumber Co., Ltd., $142.19; Vernon Hardware Co., Ltd., $1; Vernon Lumber Co., Ltd., $77.76	19,081 17		
	Total expenditure, North Okanagan District		83,000 77	
	North Vancouver District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	Assistant District Engineer, E. D. Todd, salary $570, expenses $351.72			
	Stenographers:			
	A. Anderson, salary $10; D. Chalmers, salary $103.83			
	Pay-lists, labour and team-work, $19,395.68			
	Miscellaneous:			
	Ashcroft Print Co., Ltd., $8.40; B.C. Drafting & Blue Print Co., $6.65; Burrard Wood & Fuel Co., $3.62; Canadian Explosives, Ltd., $349.58; Canadian Junk Co., $41.60; Corporation of City of North Vancouver, $3.08; G. Cotton, $10; Dixon Motors, Ltd., $35.60; Dominion Government Telegraphs, $7.23; False Creek Lumber Co., Ltd., $79.54; Giant Powder Co., $29.19; F. Goertz, $9; Gonsalves & Dames, $1; D. S. Jones-Evans, 95c.; Lands Department, $78.12; Lyon Lumber, Ltd., $41.27; C. L. McAllister, $50.35; McLellan-McCarter Co., $153.85; McLennan, McFeely & Co., Ltd., $278.03; Newport Saw Mills, Ltd., $54.80; P.G.E. Railway Co., $47.84; Pemberton Trading Co., $19.85; C. Place, $15; Seechelt Seaside Resort Co., 50c.; S. W. Spetch, $35.25; Squamish Hardware Co., $59.31; I. D. Todd, $20.90; Union Steamship Co., $49.43; E. C. Walsh Lumber Co., Ltd., $9.02; C. Wellington, $22.62; Wood, Vallance & Leggat, Ltd., $11.05; J. Woods, $125	$ 22,088 86		
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $6,505.02			
	Miscellaneous:			
	Clugston & Barton, $21.08; False Creek Lumber Co., $35.35; Green River Lumber Co., Ltd., $381.69; J. Jacks, $306.15; J. Lokken, $73.50; McLennan, McFeely & Co., Ltd., $104.21; New-			
	Carried forward	$ 22,088 86	$1,401,673 95	$ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	North Vancouver District—Continued.			
	Brought forward	$ 22,088 86	$1,401,673 95	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	port Saw Mills, Ltd., $515.57; Overton Sign Co., $35; P.G.E. Railway Co., $6.26; L. H. Roberts, $35.60; Ross & Howard Iron Works, Ltd., $310.26; Seechelt Seaside Resort Co., $6.90; Squamish Hardware Co., $39.93; I. D. Todd, $19.20; G. H. Walker, $121; Wood, Vallance & Leggat, Ltd., $133.14	8,649 86		
	Wharves:			
	Maintenance and Repairs:			
	Pay-lists, labour, $58			
	Miscellaneous:			
	B.C. Drafting & Blue Print Co., $6; S. D. H. Pope, $26.60	90 60		
	Total expenditure, North Vancouver District		30,829 32	
	Omineca District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	Assistant District Engineer, T. T. Dunlop, salary $2,280, expenses $1,662.36			
	Instrument-man, etc., C. L. Dimock, salary $1,565.50, expenses $1.25			
	Pay-lists, labour and team-work, $57,260.48			
	Miscellaneous:			
	J. M. Adams, $64.09; I. A. Arnold & Son, $1.50; A. L. Aslin, $11.25; E. C. Barger, $583.45; C. Barrett, $62; J. H. Beaton, $9; G. M. Biernes, $350; A. Blaney, $10; B.C. Equipment Co., Ltd., $31.61; B.C. Saddlery Co., $651.38; Broughton & McNeil, $209.45; Brown, Fraser & Co., Ltd., $105; Bulkley Transfer Stables, $20; Burns Lake Trading Co., $102.55; J. Buxton, $90.60; Canadian Explosives, Ltd., $1,160.53; Canadian Express Co., $25; Chapman & Chapman, $227; A. Chisholm, $781.90; City Transfer Co., $392.32; J. Cronin, $45; R. Cunningham & Son, $277.15; F. M. Dockrill, $50.57; Dominion Government Telegraphs, $118.78; R. A. Doull, $58.14; J. P. Downey, $60; A. Eastment, $10.75; S. A. Eby, $511.10; R. Elliott, $24.50; G. Farrow, $90; H. Fotherby, $152.35; F. Gilbert, $3.50; G.T.P.R. Co., $600.71; J. S. Gray, $5; N. Gregory, $82; F. Hagen, $40; J. L. Hatch, $80.45; T. Herlihy, $415.87; H. Hewitt, $3.30; P. Hickey, $2; Hudson's Bay Co., $117.25; M. Hutter, $100; R. R. Jeffrey, $147.56; F. R. Keefe Sawmills, $89.23; J. H. Keefe, $135.50; King's Printer, $59.39; Kispiox Lumber Co., $190.99; Lamson & Hubbard Canadian Co., Ltd., $97.70; W. J. Larkworthy, $18.15; O. C. Lawson, $30; G. Little, $194.60; S. N. Long, $64.50; C. W. Miller, $80; H. Miller, $27.50; E. Morin, $50; P. L. Mulville, $8.95; J. A. Mackay, $1,669.80; R. McDonald, $90.56; C. McDonell,			
	Carried forward		$1,432,503 27	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Omineca District—Continued.		
	Brought forward	$1,432,503 27	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	$180; J. McKay, $74.55; G. McKenzie, $35.60; D. McKinnon, $100; A. McLean, $26; J. McLean, $1; D. McMillan, $120; McNeil & Jennings, $22.60; J. McRae, $200; National Drug & Chemical Co. of Canada, Ltd., $90; J. Newman, $45; Northern B.C. Lumber Co., $25.87; W. J. O'Neill, $47.60; A. Pinkerton, $42; Pioneer Lumber Co., $210.54; postage, $65.90; I. E. Prosser, $117.55; R. D. Prosser, $212.60; Ruddy & McKay, $164.65; C. A. Sanberg, $14.50; R. S. Sargent, Ltd., $3,648.15; L. Schorn, $67.70; J. C. K. Sealy, $5; I. Shaw, $2.50; J. Short, $16.20; I. G. Short, $32.50; Stearns Hardware Co., $489.40; Telkwa Lumber Co., $86.40; Telkwa Transfer, $16.50; J. H. Thompson, $4; W. Thompson, $43.40; Thorp & Hoops, $33; J. W. Turner, $100; F. Watson, $62.37; White Star Line Auto Service, $6.50; G. S. Wood, $4.50; Wood, Vallance & Leggat, Ltd., $166.68; transfers, $1,820.19	$ 81,862 02	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $22,654.37		
	Miscellaneous:		
	Akerberg, Thomson & Co., Ltd., $342.99; Alberta Lumber Co., Ltd., $217.64; I. A. Arnold & Son, $6; Broughton & McNeil, $123.40; A. Burritt, $20; J. Buxton, $46.95; Canadian Express Co., $13.19; A. Chisholm, $386.26; City Transfer Co., $62; S. A. Eby, $34.35; J. N. Elliott, $18; H. Fotherby, $93.65; J. Goold, $120.95; G.T.P.R. Co., $268.15; Howe & McNulty, $103.05; Hudson's Bay Co., $67.19; S. Johnson, $30; Lakelse Lumber Co., Ltd., $3,187.78; G. Little, $1,176.65; F. R. Macdonald, $15; J. Nass, $35; postage, $1; H. Richmond, $20.67; Ross & Howard Iron Works Co., Ltd., $1,240.32; Royal Lumber Co., $1,006.57; Ruddy & McKay, $102.25; R. S. Sargent, $147.40; E. H. Shockley, $30.50; H. Silverthorne, $12.80; M. Stimson, $36; F. Stork, $18.55; Telkwa Lumber Co., $127.66; W. Thompson, $8.50; E. Woodworth, $145.50	31,920 29	
	Total expenditure, Omineca District	113,782 31	
	Prince Rupert District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	General Foreman, P. W. Anderson, salary $2,160, expenses $429.29		
	Pay-lists, labour and team-work, $45,065.36		
	Miscellaneous:		
	Albert & McCaffery, Ltd., $266.54; T. Axelson, $29; B. J. Bacon, $16; Battery House, Ltd.,		
	Carried forward	$1,546,285 58	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Prince Rupert District—Continued.		
	Brought forward	$1,546,285 58	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs:		
	Miscellaneous—*Continued.*		
	$1.64; G. D. Beattie, $5; A. Beebe, $5; Bella Coola Lumber Co., $95.94; J. L. Bethurem, $38.45; E. Bostrom, $50; F. M. Brewster, $2.50; K. W. Brink, $58.60; B.C. Packers' Association, $354.69; J. A. Brown, $658.81; B. Brynildsen & Co., $43.75; M. Budinich, $2.25; Canadian Explosives, Ltd., $1,309.32; Canadian Fairbanks-Morse Co., Ltd., $106.59; A. C. Christensen, $159.55; City Transfer Co., $150; D. Cochrane, $23.40; R. Cunningham & Son, Ltd., $40.60; T. R. Davey, $46.50; M. Dumond, $168.50; H. DuVernet, $9.43; S. A. Eby, $30; J. Eyolfson, $60; W. H. Fairbairn, $1.50; J. Flewin, $103.10; W. S. Fraser & Co., Ltd., $136.50; A. J. Galland, $177.20; Graham Island Spruce & Cedar Co., $153.15; G.T.P. Railway, $333.58; A. S. Gray, $66.91; C. Harrison, $2.75; F. W. Hart, $8; J. Hazlett, $70; Howe & McNulty, $156.30; J. Hunter, $15; Imperial Machine Works, $40; Imperial Oil, Ltd., $4.10; F. Jeune & Bro., Ltd., $723.61; Kaien Hardware Co., $12.40; Kenny Bros. & Co., $135.74; C. C. Ketchum, $100; Kirkpatrick Bros., $95.60; Kitsumgallum Timber Co., $304.86; Kleanza Co., Ltd., $111.75; F. Lazelle Co., $213.03; Lee's General Store, $4.50; T. K. Levelton, $51.50; Lipsett & Cunningham, $117.33; G. Little, $172.82; London Concrete Machine Co., Ltd., $3.36; H. Lunos, $9; J. A. Mackay, $90.56; J. Martin, $41.05; E. B. Marvin & Co., $162.95; P. O. Massari, $9; J. Murray, $500; Mussen's, Ltd., $420.76; T. H. McCubbin, $33.85; D. McLarty, $2.77; McLennan, McFeely & Co., Ltd., $529.71; J. McPherson, $6.85; National Drug & Chemical Co. of Canada, $92.70; News P. & P. Co., $14.20; O. J. Nygaard, $9.50; Pacific Cartage, Ltd., $36.39; Pacific Stevedoring & Contracting Co., $6.60; Parkin & Ward Electric Co., $3.50; Prince Rupert Boat House, $15; Provincial Police, $15; R. Scharffe, $29.45; Ship Chandlers, Ltd., $337.60; Skeena River Co-op. Association, $41.90; L. G. Skinner, $23.65; O. J. Smith, $25; W. J. Smith, $75.85; W. E. Smith, $26.50; F. Stork, $165.64; W. Vanderlip, $1.50; J. D. Wells, $132; Wood, Vallance & Leggat, Ltd., $157.06; R. B. Young Co., $131.24; transfers, $3,146.70	$60,994 68	
	By cash	416 85	
			$ 60,577 83
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $15,460.02		
	Miscellaneous:		
	Albert & McCaffery, Ltd., $64; Bella Coola Lumber Co., $97.92; F. M. Brewster, $4.55; Canadian Express Co., 80c.; Charlotte Islands		
	Carried forward	$ 60,577 83	$1,546,285 58 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Prince Rupert District—Continued.			
	Brought forward	$ 60,577 83	$1,546,285 58	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Spruce Products, Ltd., $24.13; D. Clacher, $339.60; J. Currie, $16.50; T. R. Davis, $288.60; S. A. Eby, $60; H. Edenshaw, $125; H. R. Egan, $2.40; Graham Island Spruce & Cedar Co., $440; G.T.P. Railway, $131.42; R. Haney, $31.15; C. Harrison, $25.60; Howe & McNulty, $252.15; W. Hudson, $15.25; Kenney Bros. & Co., $56.40; Kirkpatrick Bros., $73.25; Kitsumgallum Farmers' Institute, $11.70; Lakelse Lumber Co., Ltd., $314.10; F. Lazelle Co., $363.01; W. J. Leary, $5.75; G. Little, $2,080.74; London Concrete Machinery Co., Ltd., $2,360; J. A. Mackay, $92.46; J. Martin, $123.10; R. Moore, $40; Pacific Cartage, $5.70; City of Prince Rupert, $6,000; Royal Lumber Co., $436.01; Ruddy & Mackay, $15; Saloomt Lumber Co., $141.78; R. Scharffe, $13.40; L. G. Skinner, $4.50; H. Steen, 50c.; F. Stork, $40; R. Stuart, $1; Wakefield Cartage, Ltd., $1; E. Woodworth, $59.75 ..		29,618 24	
	Wharves:			
	Prince Rupert Wharf ($37,299.82):			
	Maintenance and Repairs:			
	Pay-lists, labour, $7,546.20			
	Miscellaneous:			
	Albert & McCaffery, $692.75; Akerberg & Thomson, Ltd., $122.80; W. G. Barrie, $1.50; Big Bay Lumber Co., $1,378.22; J. L. Blain, 26.52; F. Bothamley, $15; Cow Bay Tank & Sheet Metal Works, 75c.; Department of Printing & Stationery, Ottawa, $11.65; Edson Coal Co., $175.75; Empire Publishing Co., $45.36; S. Frizzell, $2; G.T.P. Railway Co., $92; Howe & McNulty, $352.66; J. Hunter, $236.65; King's Printer, $23.45; Lepine & Wright, $7; Lindsay's Cartage Co., $4; G. Little, $506.15; Lynch Bros. & McMeekin, $11.75; Mitchell & Currie, $6,442.90; D. H. Morrison, $17,132.35; T. McClymont, $16; News P. & P. Co., Ltd., $110.55; Pacific Cartage, Ltd., $20.50; Pacific Stevedoring & Contracting Co., $81.35; Parkin & Ward Electric Co., Ltd., $54.93; Pattinson & Ling, $194.30; postage, $17; City of Prince Rupert, $1,073.50; E. H. Shockley, $16.64; Steen & Longwill, $786.94; F. Stork, $33.80; G. D. Tite, 50c.; Vancouver Daily Province, $64.80; W. W. Wrathall, $1.60			
	Sundry Wharves ($3,316.70):			
	Maintenance and Repairs:			
	Pay-lists, labour, $1,923.13			
	Miscellaneous:			
	F. M. Brewster, $80.14; B.C. Packer's Association, $22; B. Brynildsen & Co., $40.55; Canadian Fairbanks-Morse Co., Ltd., $19.69; A. C. Christensen, $339.87; W. E. Gallienne, $6; Howe & McNulty, $1.75; J. Hunter, $9; Lepine & Wright, $14; J. Murray, $30; City			
	Carried forward	$ 90,196 07	$1,546,285 58	$ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Prince Rupert District—Continued.			
	Brought forward	$ 90,196 07	$1,546,285 58	$ 349,131 74
	Wharves—*Continued.*			
	Sundry Wharves—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	of Prince Rupert, $72; Saloomt Lumber Co., Ltd., $338.89; R. Schooner, $397.18; J. Smith, $22.50	40,616 52		
	Protection of River-banks:			
	Bella Coola River:			
	A. C. Christensen, $91; Howe & McNulty, $11.45; pay-lists, labour and team-work, $1,611.21	1,713 66		
	Total expenditure, Prince Rupert District		132,526 25	
	Revelstoke District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, J. B. MacKenzie, salary $2,160, expenses $905.04			
	Pay-lists, labour and team-work, $36,802.93			
	Miscellaneous:			
	O. W. Abrahamson, $15.75; T. Allan, $8; J. R. Bird, $24.50; P. Burns & Co., Ltd., $4; E. G. Burridge, $12.65; Canadian Explosives, Ltd., $428.94; C.P.R. Co., $12.23; City Transfer Co., $121.46; Columbia Hardware Co., $112.21; N. Disourdy, $30; Dominion Express Co., 50c.; S. W. File, $21; C. Granstrom, $11.25; A. Hobson, $13.65; C. B. Hume & Co., $6.70; J. H. Johnson, $1.75; H. Johnston, $192; King's Printer, $10.24; J. C. Kirkpatrick, $3.80; L. P. LeBeau, $14.70; L. C. Musson, $10.55; C. Menhenick, $35.25; Moule & Co., $2; C. R. Macdonald $2; J. B. MacKenzie, $7.02; J. B. McGaghran, $77; J. Q. McKinnon, $48.60; S. McMahon, $91.65; J. McQueen, $4; National Drug & Chemical Co. of Canada, Ltd., $1.65; Revelstoke Lumber Co., $182.84; Sabulite Explosives, $275.49; F. Saporito, $14.40; R. H. Sawyer, $91.59; Sturdy Hardware Co., $435.57; J. P. Sutherland, $3.85; C. W. Turnross, $25; W. Wagnor, $20.25			
		$42,242 01		
	By cash	37 40		
			$ 42,204 61	
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $13,616.32			
	Miscellaneous:			
	F. H. Abey, $13.30; O. W. Abrahamson, $3.25; W. Barton, $12; W. G. Campbell, $48.67; C.P.R. Co., $200.51; D. Chisholm, $9.05; City Transfer Co., $174.50; Columbia Hardware Co., $215.29; Dominion Express Co., $32.85; J. Fitzsimmons, $69.56; R. Fleming, $8.50; M. Goch, $277.20; C. Granstrom, $8.50; Gray-Dort Garage, $1; A. Hobson, $4.25; N. Hoglund, $8.90; Hudson's Bay Co., $18; J. H. Johnson, $5.75; Kaslo			
	Carried forward	$ 42,204 61	$1,678,811 83	$ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Revelstoke District—Continued.			
	Brought forward	$ 42,204 61	$1,678,811 83	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Transfer Co., $3; C. Lenard, $17.76; Mayhue & Marceau, $605.74; C. Menhenick, $116.96; Moule & Co., $2.20; J. McCarty, $5; J. B. MacKenzie, $1.79; J. B. McGaghren, $10; J. J. McGlone, $1.10; S. McMahon, $47.13; Nelson Iron Works, Ltd., $46.73; J. P. Olson, $10; L. N. Remillard, $2.25; Revelstoke Lumber Co., $75.60; Revelstoke Review Publishing Co., Ltd., $1; Revelstoke, Trout Lake & Big Bend Telephone Co., Ltd., $4.50; H. Salmon, $320; R. H. Sawyer, $202.44; Sturdy Hardware Co., $142.29	16,342 89		
	Wharves:			
	Maintenance and Repairs:			
	Miscellaneous:			
	Columbia Hardware Co., $4.25; S. McMahon, $5.40	9 65		
	Total expenditure, Revelstoke District		58,557 15	
	Richmond District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	Assistant District Engineer, E. D. Todd, salary $760, expenses $500.23			
	Stenographers:			
	A. Anderson, salary $30; D. Chalmers, salary $125.08			
	Pay-lists, labour and team-work, $2,583.75			
	Miscellaneous:			
	Barrett Co., $553.20; Bennett's Transfer, $6.50; Boultbee, Ltd., $43.50; Champion & White, $43.15; Clugston & Barton, $3.85; Corporation of Point Grey, $3,560.34; Delta Garage, 95c.; Dixon's Motors, Ltd., $990; Evans, Coleman & Evans, Ltd., $1.25; Gilley Bros., Ltd., $321.30; Hall & Wallace, $157.25; G. W. Hamilton, $3.90; J. Hanbury & Co., Ltd., $1.40; Imperial Oil, Ltd., $50.30; licences, $41.60; J. A. Locke, $90; McLennan, McFeely & Co., Ltd., $71.52; R.A.F. Motor Transfer, $385.50; L. H. Richards, $13.90; Richmond Garage, $14.78; Ritchie Contracting & Supply Co., Ltd., $504.75; C. C. Snowdon, $5.50; South Vancouver Builders' Supply Co., $42.75; Tourist Auto Livery, Ltd., $40; United Grain-growers', Ltd., $77.20; W. White, $4; H. Wighton, $1; Wood, Vallance & Leggat, Ltd., 30c.	$ 11,028 75		
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $2,015.95			
	Miscellaneous:			
	Barrett Co., Ltd., $86.40; B.C.E.R. Co., Ltd., $1,519.67; Brunette Saw Mills, Ltd., $1,686.04; Clugston & Barton, $137.53; Eburne Gravel Co., $23.75; Eburne Saw Mills, Ltd., $856.98; Fraser			
	Carried forward	$ 11,028 75	$1,737,368 98	$ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Richmond District—Continued.			
	Brought forward	$ 11,028 75	$1,737,368 98	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	River Pile Driving Co., Ltd., $433.26; W. W. Fraser, $3,150; J. Grauer, $100; W. Greenlees, $447.63; Imperial Oil, Ltd., $62.95; D. McDonald, $4.50; McLennan, McFeely & Co., Ltd., $82.70; L. H. Richards, $5.55; Richmond Garage, $12.40; W. White, $4.25; Vancouver Daily Sun, $4.20	10,633 76		
	Total expenditure, Richmond District		21,662 51	
	Rossland District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, P. J. Gallagher, salary $180, expenses $25.15			
	Stenographer, E. McLean, salary $84			
	Pay-lists, labour and team-work, $8,164.38			
	Miscellaneous:			
	Agnew & Co., 40c.; R. Barrie, $2.65; B.C. Telephone Co., $6.30; Canadian Fairbanks-Morse Co., $134.50; C.P.R. Co., $19.60; Consolidated Mining & Smelting Co., $521.30; D. W. Ferguson, $3.50; A. S. Goodeve & Co., Ltd., $3.50; Hunter Bros., Ltd., $82.90; J. H. Lee, $19.90; W. S. Murphy, $25; W. McKay, $26.55; Trail Mercantile Co., $2.35	$ 9,301 98		
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $184.62			
	Miscellaneous:			
	Consolidated Mining & Smelting Co., Ltd., $16.66; J. S. Deschamps, $139.57; Hunter Bros., $6.45	347 30		
	Total expenditure, Rossland District		9,649 28	
	Saanich District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $1,415.35			
	Miscellaneous:			
	Hudson's Bay Co., $5.80; J. M. Malcolm, $33; L. Phillips, $13.11; Saanich Corporation, $250; transfers, $2,912.18	$ 4,629 44		
	Total expenditure, Saanich District		4,629 44	
	Similkameen District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, F. Fraser, salary $2,160, expenses $920.71			
	Stenographers:			
	W. J. Cormack, salary $210; A. C. van Buskirk, salary $150			
	Carried forward		$1,773,310 21	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Similkameen District—Continued.		
	Brought forward	$1,773,310 21	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Pay-list, labour and team-work, $32,904.79		
	Miscellaneous:		
	J. D. Adams & Co., $203.76; J. W. Allen, $12.65; American Railway Express Co., $2.25; Baker & Doherty, $93.61; Bank of Montreal, $30.70; H. W. Bragg, $4.70; B.C.E.R. Co., Ltd., $187.50; B.C. Equipment Co., Ltd., $82.32; E. E. Burr, $35.50; Canadian Fairbanks-Morse Co., $245.93; C.P.R. Co., $31.39; Central Garage, $620.80; Collector of Customs, $48.27; F. P. Cook Estate, $112.48; Dominion Express Co., $6.60; Dominion Government Telegraphs, $34.75; Dominion Rubber System (Pacific), Ltd., $78.01; M. Dumond, $68.19; V. Fetterley, $75.35; W. S. Fraser & Co., Ltd., $18.53; S. Gibson, $4; licences, $33; M. Gordon, $9.50; Great Northern Railway Co., $1.53; A. K. Green, $5; Heaps & Sons, $3,411.16; Hedley Gold Mining Co., Ltd., $740.55; H. J. Holman, $71.35; J. Jamieson, $9.25; Keremeos Hardware, $65.65; Kettle Valley Railway Co., $5.58; King's Printer, $3.53; J. F. Madore, $31.50; H. B. Morley & Co., $37.55; Mountain Lumber Co., $52.50; Mussen's, Ltd., $193.43; A. J. McGibbon, $84; K. McKenzie Lumber Co., $983.95; McLennan, McFeely & Co., Ltd., $7.15; McNeil & Yeoman, $23.30; I. McTavish, $15.75; National Drug & Chemical Co. of Canada, $30.95; Newton & Sinclair, $4.45; Okanagan Falls Trading Co., $2.75; Patent Holding Co., $45.75; Penticton Battery Service, $29.85; Penticton Garage, $279.95; Penticton Hardware Co., $46.90; Penticton Herald, $17; Penticton Saddlery, $3.75; Penticton Tire Hospital, $12.15; postage, $40; Princeton Garage, $218.20; Princeton Star, $9; C. Schisler, $64.08; J. A. Schubert, $18.90; South Okanagan Irrigation Project, $38.75; South Okanagan Land Co., $40; Taylor & Anderson, $72.45; United Typewriter Co., Ltd., $6.05; A. C. van Buskirk, $90; J. Wallen, $5.95; Welding Shop, $157; D. D. Yule, $20.45		
		$45,382 35	
	By material charged to bridges..	1,350 44	
			$ 44,031 91
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $3,797.16		
	Miscellaneous:		
	Baker & Doherty, $24.86; F. H. Bassett, $18; C.P.R. Co., $213.85; G. Farrar, $30; V. Fetterley, $32.25; J. K. Fraser, $1.75; Heaps & Sons, Ltd., $873.50; Hedley Gold Mining Co., $74.25; W. H. Holmes, $5; A. E. Howse Co., $36.75; J. Jamieson, $7; Keremeos Hardware, $7.15; Kettle Valley Railway Co., $5.40; A. G. Lambert Co.,		
	Carried forward	$ 44,031 91	$1,773,310 21 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Similkameen District—Continued.			
	Brought forward	$ 44,031 91	$1,773,310 21	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Ltd., $19.15; M. H. MacLeod, $13; J. F. Madore, $129.10; Mountain Lumber Co., $181.97; W. McKenzie Lumber Co., $2,925.14; McLennan, McFeely & Co., Ltd., $78.77; I. McTavish, $6.10; Penticton Hardware Co., $182.60; South Okanagan Irrigation Project, $10.80; A. C. van Buskirk, $190; material from roads, $1,350.44	10,213 99		
	Wharves:			
	Maintenance and Repairs:			
	Pay-lists, labour, $86.25			
	Miscellaneous:			
	M. Gordon, $19.20	105 45		
	Total expenditure, Similkameen District		54,351 35	
	Slocan District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, A. L. Levy, salary $2,160, expenses $588.54			
	Pay-lists, labour and team-work, $36,325.77			
	Miscellaneous:			
	O. W. Abrahamson, $5; P. Angrignon, $42.15; Angell Hardware Store, $14.33; G. Avison, $4; C. S. Ball, $25; W. Banting, $13.10; Black & Cameron, $18.35; Burton Farmers Co-operative Association, $75.60; E. A. Cameron, $1,100; Canadian Explosives, $231.60; C.P.R. Co., $69.70; E. C. Carver, $3; City Transfer, $8.33; W. Clough, $42.35; G. Craft, $3.40; R. Cunning, $15; C. Dilley, $36.15; Dominion Express Co., $13.13; T. Eaton Co., Ltd., $2.75; L. J. Edwards, $50; H. J. Emerson, $14; J. D. Fesser, $22; S. W. File, $97.50; J. L. Funk, $1.75; J. Gardner, $4; Giant Powder Co., $484.51; A. J. Graham, $2; G. T. Store, $2.60; A. J. Grigg, $21.50; W. K. Gunn, $13; G. Gustafson, $6; G. Hamilton, $78.70; T. H. Hoben, $137.84; J. R. Humphries, $76.25; King's Printer, $30.83; E. W. Kopecki & Co., $27.10; G. H. Murhard, $25.50; E. Mutch, $1.50; F. K. McQueen, $5; D. McVicar, $14; National Drug & Chemical Co. (Canada), $46.90; Nakusp Co-operative Society, $7.45; Nakusp Lumber Co., $76.08; Nakusp Trading Co., $9.65; Nelson Hardware Co., $40; J. R. Porter, $3.25; postage, $30; Redlands Trading Association, $9.55; Red Mountain Shingle Co., $83.50; J. S. Reid, $2; C. Rollins, $28; F. Rushton, $2.50; I. B. Schiedel, $19.12; J. Skribe, $5.25; Slocan Mercantile Co., Ltd., $14.75; J. B. Smith, $17.49; J. Thomlinson, $2; W. Thomlinson, $2; J. Thomson, $28.35; J. Tier, $29.20; S. J. Towgood, $21; D. G. Trickett & Co., $1.75; United Tyepwriter Co., $18.50; Wagstaff & Vestrup, $84.55; E. A. Walton, $751;			
	Carried forward		$1,827,661 56	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Slocan District—Continued.		
	Brought forward	$1,827,661 56	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	Walton & Emerson, $18; Watts & Sons, $181.52; Wattsburg Lumber Co., $82.29; T. H. Wilson, $152.15; Wilson's, Ltd., $21.55; Wood-Vallance Hardware Co., $98.75	$ 43,800 93	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $6,675.61		
	Miscellaneous:		
	P. Angrignon, $50; W. Banting, $2.97; J. Burns, $38.45; E. A. Cameron, $650; Canadian Explosives, Ltd., $35.18; C.P.R. Co., $81.06; W. Clough, $12.50; G. Craft, $1.50; Deer Park Lumber Co., $40.43; C. Dilley, $2.50; Dominion Express Co., $18.35; A. W. Epp, $11.80; C. E. Fuller, $165.60; A. J. Graham, $541.72; J. Graham, $3; G. T. Store, $61.40; T. H. Hoben, $8.36; W. Hunter, $413.25; King's Printer, $10; Millar & Price, $660; T. McNeish, $30.70; T. K. McQueen, $167.52; Nakusp Lumber Co., $19.76; Needles District Co-op. Association, $1; Nelson Hardware Co., $166.41; J. M. Rae, $5; R. C. Store, $11; Renata Lumber Co., $100.80; Rosebery Surprise Mining Co., $2.08; Slocan Silver Mines, Ltd., $41; R. Stevens, $59.21; J. Tier, $1.50; R. S. Warner, $6.75; Watts & Sons, $963.51; Wattsburg Lumber Co., $97.60; West Transfer Co., $9.10; Wilson's, Ltd., $8.15.....	11,174 77	
	Total expenditure, Slocan District		54,975 70
	South Okanagan District.		
	Roads and Streets:		
	Maintenance and Repairs:		
	General Foremen:		
	T. J. McAlpine, salary $2,160, expenses $1,023.40; W. Watson, salary $1,740, expenses $458.67		
	Clerks:		
	W. Limmer, salary $400; C. P. Nelson, salary $200		
	Pay-lists, labour and team-work, $28,290.78		
	Miscellaneous:		
	F. L. Black, $7.65; H. G. Blair, $233.15; B.C. Equipment Co., $548.60; J. W. B. Browne, $934.89; J. Burris, $6; C. A. Butler, $68.44; M. Byrne, $49.50; C.P.R. Co., $64.72; D. Chapman, $91; J. H. Clements, $4.50; Community Lumber Co., $53.75; Corporation of City of Kelowna, $18.20; Corporation of Summerland, $18; Crawford Bros., $35.87; S. N. Cutbill, $9; H. T. Davies, $23.20; T. Davies, $2; Dominion Express Co., $9.06; Dominion Glazed Cement Pipe Co., Ltd., $485.24; C. Donnelly, $24.95; M. Dumond, $117; W. R. Glenn & Son, $5; Greer & Butler, $5.37; B. Hardie, $10.50; B. L.		
	Carried forward	$1,882,637 26	$ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	South Okanagan District—Continued.			
	Brought forward		$1,882,637 26	$ 349,131 74
	Roads and Streets—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Hatfield, $136.03; W. Haug, $5; L. A. Hayman, $28; H. J. Holman, $233.38; J. H. Hyde, $48.67; C. J. Jackson, $7; Jenkins Co., Ltd., $64.40; Johnstone & Sutherland, $3.25; Kelowna Carriage Works, $4; Kelowna Courier, $21.58; Kelowna Saw Mills Co., Ltd., $78.40; King's Printer, $26; G. Lane, $6.25; Leckie Hardware, Ltd., $263.45; licences, $57.99; C. L. Mann, $12.30; S. Mills, $126.60; Morrison-Thompson Hardware Co., $231.72; Munson's Sawmills, Ltd., $206.84; T. McLaughlin, $34.05; Naramata Supply Co., Ltd., $11.90; National Drug & Chemical Co. of Canada, $31; Okanagan Telephone Co., Ltd., $90.30; M. A. Orchard, $200; R. Parmley, $2; Peachland General Store, $259.30; Peachland Lumber & Manufacturing Co., Ltd., $8.05; Penticton Herald, $29.48; T. Pilkington, $22.45; postage, $37; Remington Typewriter Co., $15.60; T. H. Riley, $12.10; W. Ritchie, $37.72; Sawyer-Massey Co., Ltd., $106.89; W. J. Smith, $469.10; Summerland Drug Co., $8.45; Summerland Fruit Union, $6; Summerland Supply Co., Ltd., $27.63; Summerland Telephone Co., Ltd., $50.30; Vernon News P. & P. Co., $32.56; W. Watson, $150; H. Williams, $5.50; Wood, Vallance & Leggat, Ltd., $91		$ 40,397 68	
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $893.46			
	Miscellaneous:			
	E. M. Andreas, $14.40; D. Chapman, $55.30; C. I. Last, $6.96; Morrison-Thompson Hardware Co., Ltd., $16.50; Munson's Sawmills, Ltd., $354; K. McKenzie Lumber Co., $122; Penticton Hardware Co., $6.27		1468 89	
	Total expenditure, South Okanagan District		41,866 57	
	South Vancouver District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	Assistant District Engineer, E. D. Todd, salary $950, expenses $533.41			
	Clerk, D. Chalmers, salary $106.25			
	Miscellaneous:			
	A1 Auto Repair Shop, $71.57; B.C. Drafting & Blue printing, $3.15; Chislett's Super-service Station, $77.10; Corporation of District of Burnaby, $1,492.56; Corporation of Port Moody, $32; Dixon Motors, Ltd., $2.70; Harrison & Co., $2.25		$ 3,270 99	
	Carried forward		$ 3,270 99	$1,924,503 83 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	South Vancouver District—Continued.			
	Brought forward	$ 3,270 99	$1,924,503 83	$ 349,131 74
	Bridges:			
	Maintenance and Repairs:			
	Miscellaneous:			
	Corporation of District of Burnaby, $477.21; Fraser Pile Driving Co., $7,850	$8,327 21		
	By Corporation of the District of South Vancouver	3,925 00		
		4,402 21		
	Total expenditure, South Vancouver District		7,673 20	
	Trail District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	General Foreman, P. J. Gallagher, salary $1,800, expenses $624.11			
	Stenographer, E. Barker, salary $17.50			
	Pay-lists, labour and team-work, $38,304.65			
	Miscellaneous:			
	J. Balfour, $4.29; Boulder Lumber Co., $46.58; A. Bremner, $16.90; B.C. Telephone Co., $1.10; J. Burns & Son, $148; Canadian Explosives, Ltd., $75.29; Canadian Oil Companies, Ltd., $563.44; C.P.R. Co., $101.42; W. Carr, $13.25; Christian Community of Universal Brotherhood, $1.50; City of Nelson, 95c.; A. Cruickshank, $10.50; J. S. Deschamps, $55.50; A. Desjardine, $10; Dominion Express Co., $15.87; E. Doucette, $412.65; F. H. Drake, $10.25; Federal Motor Co., Ltd., $22; Giant Powder Co., Ltd., $482.51; M. Gintzburger, $6.75; A. S. Horswill & Co., $58.15; Hudson's Bay Co., $3.33; Imperial Oil, Ltd., 50c.; W. J. Jewell, $29.25; C. H. Jones & Son, Ltd., $180.20; K. King, $78; A. G. Lambert Co., Ltd., $157.19; A. Laviolette, $6.25; T. Lee, $7; J. M. Ludwig, $6.10; J. Malcolm, $9.25; H. A. McCarthy, $1.80; McLean & Stevenson, $1; Nelson Hardware Co., $367.08; Nelson Iron Works, Ltd., $19.96; Nelson Transfer Co., Ltd., $3; B. T. O'Grady, $3.50; O. Opsahl, $25.05; M. Peters, $1.50; A. E. Pittaway, $50; J. Quayle, 30c.; P. J. Rahal, $5.25; C. Robinson, $2.75; Salmo Meat Market, $31.80; Salmo Trading Co., Ltd., $21.35; R. Sapples, $1; Slocan Valley Lumber Co., $3.13; S. Smart, $2.13; Smedley's Garage, $40.85; Trail Garage Co., Ltd., $121.60; Trail Mercantile Co., Ltd., $30.05; J. H. Turner, $155; Wagstaff & Vestrup, $9.15; Watts & Sons, $36.90; C. C. Weatherby, $13; J. Webster, $56.25; West Transfer Co., $50.51; Wood-Vallance Hardware Co., $119.86	$ 44,454 00		
	Bridges:			
	Maintenance and Repairs:			
	Pay-lists, labour and team-work, $4,712.34			
	Miscellaneous:			
	Appleton Bros., $14.40; W. Bonthron, $45; Boulder Lumber Co., $115.20; A. Bremner,			
	Carried forward	$ 44,454 00	$1,932,177 03	$ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Trail District—Continued.			
	Brought forward		$ 44,454 00	$1,932,177 03 $ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	$310.19; British American Paint Co., Ltd., $66.75; Brunette Sawmills, Ltd., $1,346.13; W. G. Campbell, $9.05; Canadian Fairbanks-Morse Co., Ltd., $87.04; C.P.R. Co., $169.80; Crescent Valley Store, $38.89; Dominion Express Co., $10.40; E. Doucette, $327.65; Electric Blue Print & Map Co., $6.85; Fruitvale Lumber Mills, $319.52; Godwin, Ltd., $392.74; Grand Forks Construction Co., $3,058.81; Great Northern Railway Co., $339.08; G. S. Horne, $17.50; A. S. Horswill & Co., $87.13; King's Printer, $15; A. G. Lambert Co., Ltd., $49.83; E. G. Marvin & Co., $10.92; F. R. McCharles, $287.18; Nelson Daily News, $19.80; Nelson Hardware Co., $180.28; Nelson Iron Works, Ltd., $9.58; C. Robinson, $31.50; Salmo Trading Co., Ltd., $30.25; R. Townsend, $6.50; Vancouver Daily Sun, $89.10; Vancouver Engineering Works, Ltd., $2,387.66; Varseveld Bros., Lumber Co., $22; Wagstaff & Vestrup, $18.60; Watts & Sons, $1,451.08; Wattsburg Lumber Co., $2,331.59; West Transfer Co., $6.25; Western Box & Shingle Mills, Ltd., $12.88; Wood-Vallance Hardware Co., Ltd., $40.16; Ymir Livery Stables, $3		18,477 63	
	Total expenditure, Trail District			62,931 63
	Yale District.			
	Roads and Streets:			
	Maintenance and Repairs:			
	Assistant District Engineers:			
	F. J. Dawson, salary $2,090, expenses $1,639.90; G. C. MacKay, salary $190, expenses $115.05			
	Stenographer, M. E. Willgoose, salary $715			
	Pay-lists, labour and team-work, $40,613.50			
	Miscellaneous:			
	J. H. Anthony, $7.10; Antill & Clark, $4; Armstrong's Department Stores, $260.52; Austin Manufacturing Co., $1.91; M. A. Baillie, $117.75; R. F. Barrett, $513.70; J. Bate, $5; C. A. Bigney, $515.80; J. P. Boyd, $8.35; B.C. Equipment Co., $221.80; Brown, Fraser & Co., Ltd., $8.05; Canadian Avery Co., $9.30; Canadian Explosives, Ltd., $1,006.49; Canadian National Railways, $250; Canadian Northern Railway Co., $36.25; C.P.R. Co., $37.93; T. Canoe, $5.50; Car & Tire Hospital, $3.75; A. Cenname, $22.50; J. Chautlam, $50.75; J. M. Christian, $7.20; City of Merritt, $699.62; Clarke & Stuart Co., Ltd., $47.34; H. S. Cleasby, $363.10; A. Clemes, $185.24; H. Collins, $25; J. G. Collins, $25; F. P. Cook Estate, $4.50; H. V. Cottrell, $9.90; J. Curnow, $75; N. S. Dalgleish, $49.34; F. J. Dawson, $33.61; O. E. Dent, $26.33; D. Dickie &			
	Carried forward			$1,995,108 66 $ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Yale District—Continued.		
	Brought forward	$1,995,108 66	$ 349,131 74
	Roads and Streets—*Continued.*		
	Maintenance and Repairs—*Continued.*		
	Miscellaneous—*Continued.*		
	Co., $67.03; C. A. Dougherty, $35; Douglas Lake Cattle Co., $1.20; Dry Belt Settlements Utilities, Ltd., $89.45; M. Dumond, $87.78; J. L. Dunlop, $237.37; F. Elliott, $115; E. Farr, $22.50; G. Fitzgerald, $77.32; A. B. Forrest, $5.35; A. M. Fraser, $2.40; P. Gilboe, $15; R. Gould, $1.10; N. Green, $21.10; M. L. Grimmett, $60; J. A. Guichon, $10.30; J. D. Guinet, $360.19; W. H. Hammond, $14.50; A. Hardy, $19.45; Harvey-Bailey, Ltd., $317.15; Hedley-Shaw Milling Co., $94.30; C. Hinsman, $10; W. Hornfray, $35; C. E. Hope, $500; Hope Motor Transfer, $10.79; Hope Trading Supply Co., $11.60; W. Hunter, $7; W. M. Huston, $4.30; C. Inkman, $6.50; A. Jackson, $7.35; C. H. Jones & Son, Ltd., $329.99; J. Kane, $17.50; Kettle Valley Railway, $33.44; G. K. Kingdon, $35; King's Printer, $69.82; L. Louie, $12.40; W.W.L. Co., $122; J. R. Lyons, $5.55; Lytton Water Supply Co., $1.50; Marquis of Anglesey's Estate, $118.50; E. J. Martel, $21; J. A. Menzies, Ltd., $4.20; Merritt Lumber Yard, $158.90; Merritt Mercantile Co., $75.29; Merritt Transfer, $4.50; L. F. Morino, $20; Morley-Pauline Rubber Co., $338.50; R. A. Muir, $37.20; D. L. Munro, $250; J. A. Murchison, $65.32; R. M. McGillivray, $42; C. McIntosh, $553.36; McIntosh & Baillie, $63; A. McKay, $68.27; A. McGoran, $175.56; L. McKay, $10; P. McLean, $8.10; W. McNair, $35.77; National Drug & Chemical Co. (Can.), $122.34; J. Neil, $408; Nicola Livery Stable, $13.27; Nicola Stock Farm Store, $4.95; Nicola Valley Garage, $46.80; O'Connor & Collins, $400; P. Oppenheim, $4; Parker Sawmill Co., $59.13; Perry Ranch, $30; W. Pitt-Cross, $9.13; T. W. Pocock, $18; Pope & Small, $7.70; postage, $74; Lazy L. Ranch, $70; A. G. Rebagliati, $388.83; Remington Typewriter Co., $121.85; E. J. Rhodes, $24; H. E. Richardson, $33; F. Riley, $181.45; Rockwell, Theal, & Davison, $805.10; A. M. Ruddock, $69.85; F. Seward, $175.80; T. Sing, $95.95; H. Sisco, $12.25; F. Smith, $28.75; R. A. Smith, $30; St. George's School, $39.25; W. Stobie, $20; Storey & Campbell, $20.25; A. Strang, $2.97; R. Trodden, $132.25; A. C. Vincent, $19.40; H. R. Wade, 45c.; Walhachin Stores, $99.50; A. C. Webster, $31.25; West Canadian Ranching Co., $40; Wilcox-Hall Co., Ltd., $30; Wilkinson Co., Ltd., $100.78; E. R. Williams, $5.54; R. Williams, $31.80; T. T. Wilson, $48.35	$ 58,348 17	
	Bridges:		
	Maintenance and Repairs:		
	Pay-lists, labour and team-work, $8,086.73		
	Miscellaneous:		
	Armstrong's Department Store, $5; M. C. Baillie, $24.75; R. F. Barrett, $135.30; Basque		
	Carried forward	$ 58,348 17	$1,995,108 66 $ 349,131 74

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*			
	Yale District—Continued.			
	Brought forward	$ 58,348 17	$1,995,108 66	$ 349,131 74
	Bridges—*Continued.*			
	Maintenance and Repairs—*Continued.*			
	Miscellaneous—*Continued.*			
	Chemical Production Co., Ltd., $20; Bucklin Lumber Co., $2,364.40; Caignon Bros., $3; Canadian National Railways, $97.50; C.P.R. Co., 81c.; H. S. Cleasby, $17.60; A. Clemes, $20.90; H. G. Coldwell, $7; A. J. Coutlee, $50; O. E. Dent, $4.80; Dry Belt Settlements Utilities, Ltd., $1.15; M. Dumond, $90.89; J. L. Dunlop, $5.25; F. Elliott, $41.51; G. Farrar, $119; D. Foster, $7; J. D. Gillis, $157.08; J. Guinet, $241.63; Harvey-Bailey, Ltd., $20.40; Heaps Engineering Co., Ltd., $32.65; E. W. Hoole, $2.75; W. Hunter, $8; A. A. Johnson, $70.30; Kawkawa Lumber Co., Ltd., $124.80; Kettle Valley Railway Co., $204.46; Marquis of Anglesey Estate, $4; J. A. Menzies, Ltd., $50.11; Merritt Lumber Yard, $1,182.89; Merritt Mercantile Co., $101.06; T. D. Mitchell, $40.32; C. McIntosh, $5.70; McIntosh & Baillie, $19.15; McLennan, McFeely & Co., Ltd., $55.38; Parker Saw Mill Co., $68.06; J. Perrie, $19.84; Perry Ranch, $15; F. L. Peters, $33.65; G. A. Rebagliati, $94.85; F. Riley, $202.10; Tong Sing, $17.50; R. Trodden (sundry accounts), $700.94; Walhachin Stores, $2.20; G. B. Whitehead, 54c.	14,577 95		
	Total expenditure, Yale District		72,926 12	
	Road Machinery.			
	J. Armstrong, $1,156.88; J. Adlard, $190; Alberta Stock Yards Co., $30.40; D. B. Anderson, $13; Armstrong Bros., $29.20; Barrington Transport Co., $41.80; Begg Motor Co., Ltd., $19,712; A. Boyd, $40.47; Brayden & Johnston, $320.60; B.C. Equipment Co., Ltd., $2,885.52; B.C. Express Co., $312.14; Brown, Fraser & Co., Ltd., $23,019.89; Brunette Saw Mills Co., Ltd., $8.81; E. E. Burr, $1,036.30; Canadian Bank of Commerce, $32.25; Canadian Fairbanks-Morse Co., Ltd., $3,153.76; Canadian National Railways, $61.33; C.P.R. Co., $599.17; Carroll & Co., $8.15; A. L. Carruthers, $206.11; E. T. Cooper, $1,170.45; Cowan Supply Co., $148; S. H. Currie, $6; Dixon Motors, Ltd., $594.30; Dominion Express Co., $5.45; Dominion Government Telegraphs, 80c.; E. L. Doolan, $24.20; C. A. Dougherty, $20.20; Drake Hardware Co., Ltd., 82c.; M. Dumond, $2,406; Duncan Garage, $442.30; J. L. Dunlop, $30; Duplex Motors, Ltd., $7,310.70; W. J. Ellis & Co., $88.17; E. & N. Railway Co., $41.60; Fairfield Ranch, $99; H. F. Farmer, $5.50; Federal Motor Co., Ltd., $14,945.20; Fernie Garage, $988; Ford Garage, Courtenay, $1,037.95; R. Fraser, $18.25; A. S. Goard Motors, Ltd., $1,020.78; Goodman Supply Co., $7.50; G.T.P. Railway Co., $579; Greer & Butler, $1,001.30; E. Hall, $2,054.60; G. Hall, $15; Hanson Garage, $3,082.64; W. Hargraves, $590; B. L. Hatfield, $900; J. Heaney, $94.50; Hotel Hat Creek, $350; Invermere			
	Carried forward		$2,068,034 78	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Road Machinery—Continued.		
	Brought forward	$2,068,034 78	$ 349,131 74
	Contracting Co., $1,736.77; Johnston Storage Co., $33.75; Kamloops Tire Hospital, $341.68; D. Killoran, $10.25; A. J. Kirstin Canadian Co., $373.34; J. R. Knight, $75; licences, $675.35; C. & D. Long, $150; Lougheed, Bennett & Co., $5; W. Mable, $300; A. M. Mainguy, $110; S. M. Maysmith, $5,763.84; F. Mellor, $91; J. Meston & Co., Ltd., $660.85; Minday Engineering Co., $10.20; M. Montgomery, $45.95; Morrison-Thompson Hardware Co., Ltd., $1,007.73; J. W. Morton, $63; M. Mouch, $27.95; Mussen's, Ltd., $2,255.48; A. H. McCarthy, $700; H. S. McCreath, $10.23; C. McIntosh, $60; W. McKinnon, $20; A. McLean, $201.68; P. McMaster, $5.25; National Motor Co., Ltd., $2,051; Nelson Motor Supply Co., $571.30; W. Newnes, $44.06; Nicola Valley Garage, $1,031.42; Oxford & Templeman, $11.40; P.G.E. Railway Co., $256.75; C. J. Payne, $17.10; T. Plimley, $2,042.78; Porter Hay & Grain Co., $21.40; Ridley-Kennedy, Ltd., $2,846.99; W. S. Ritchie, $16; Safe, Ltd., $29.59; Sampson Motor Co., $3,912.80; Sawyer-Massey Co., Ltd., $481.15; Silverdale Machine Shops, $8.76; H. Taylor, $141.05; M. Thorp, $5.50; H. Turner, $2; Tudesco Farms, Ltd., $11,961.75; J. K. Urquhart, $40.02; Veterinary Infirmary, $145; Victoria Baggage Co., $191.04; Vulcan Iron Works, $163.65; Watkins Garage, $701.42; West Transfer Co., $31.83; T. Williamson, $131; W. R. Winger, $6.38; Woodley Motor Cycle Co., $235; A. F. Youngs, $5.25; pay-lists, $2,387.88	$136,161 56	
	Total expenditure, Road Machinery		136,161 56
	Location of Roads.		
	H. H. B. Abbott, $330.90; F. G. Aldous, $95; L. Ashby, $36.95; H. Barr, $31.68; Beattie-Noble, Ltd., $4.60; A. H. Benson, $75.70; F. Browrigg, $8.25; F. Carlson, $5.85; J. H. Clarke, $20; Clarke & Stuart Co., Ltd., $143.43; L. S. Cokely, $67.50; E. T. Cooper, $61.60; W. H. Cotton, $104.20; Cranbrook Meat Market, $25.80; Cranbrook Saddlery Co., $3.25; Cranbrook Sash & Door Co., Ltd., $12; A. Cummings, $278.95; J. G. Cummings, $138.52; F. J. Dawson, $511.65; O. E. Dent, 70c.; V. Desaulnier, $21.15; Dominion Express Co., 40c.; Dufresne & Whitaker, $22,494.95; Electric Blue Print & Map Co., $8.15; Fink Mercantile Co., Ltd., $1.80; Fort Steele Garage, $29.05; Fort Steele Trading Co., $7.70; W. S. Fraser & Co., Ltd., $24.45; T. K. Futa, $11.77; F. Goertz, $140; Green Bros., Burden & Co., $6,580.85; C. A. Groat, $15; J. Grondin, $36; R. H. Haggen, $20; A. W. Hamill, $82.75; Hanson Garage, $45.60; Harrison & Co., $2.90; E. P. Heywood, $31; Hickman-Tye Hardware Co., Ltd., $2.53; J. Hirsch, $132.50; H. Hodgson, $105; O. Holst, $30; Hope Trading & Supply Co., $59.90; Imperial Oil, Ltd., $88.92; Jameson & Willis, Ltd., $4.80; A. Johnston, $31.20; C. H. Jones & Son, Ltd., $69.35; Kelly, Douglas & Co., Ltd., $801.61; H. Kershaw & Son, $13.65; J. L. King, $43.55; King's Printer, $190.01; Kootenay Garage, $274.20; Kootenay Telephone Lines, Ltd., $1.75; F. LaLonde, $10; E. C. W. Lamarque, $33; Lemon-Gonnason Co., Ltd., $5; licence, $10; A. B. Lloyd, $15;		
	Carried forward	$2,204,196 34	$ 349,131 74

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Location of Roads—Continued.		
	Brought forward	$2,204,196 34	$ 349,131 74
	J. A. Macdonald, $12; H. Maguire, $105; J. Manning, $14.58; J. Mason, $94.85; E. Mattice, $15; Menzies Hardware Co., Ltd., $1.95; C. Moore, $35; J. G. MacDonald, $2; A. L. McCulloch, $1,382; C. McIntosh, $5.20; P. McLean, $17.75; McLeod & Harrison, $3.90; McLennan-McFeely Co., Ltd., $26.03; Nolan Lumber Co., $15.39; P.G.E. Railway Co., 40c.; F. Parks & Co., $16.50; Patmore Bros., $2; W. J. Payette, $6; People's Cash Hardware, $3.20; S. D. H. Pope, $12.35; P. Raymond, $90; Revercomb Motor Co., $27.20; R. Robinson, $10.50; P. S. Roe, $8; J. E. Ross, $180.80; Ross-Saskatoon Lumber Co., Ltd., $80.62; D. H. N. Russell, $26.85; O. Sacht, $19.40; C. Sanford, $6; Semple & Semple, $2.50; Similkameen Hotel, $4; C. B. Simonds, $56.50; R. A. Smith, $3.70; M. M. Stephens, $191.75; G. N. Stowe, $98.55; J. P. Suttie, $447.30; F. Syson, $8.95; Tarbell's, Ltd., $2.25; A. C. Taylor, $187.20; E. R. Taylor, $351.10; Terrace Hotel, $8.40; T. H. Tracy, $55; H. R. Wade, $1,106.10; Waldo Garage, $53.40; H. Wighton, $21.25; Yahk Lumber Co., $10.50; pay-lists, labour and team-work, etc., $27,836.25	$ 66,097 19	
	Total expenditure, Location of Roads		66,097 19
	Wharves Generally.		
	F. G. Aldous, $32; W. D. Byers, $6; G. P. Corden, $40; J. Hirsch, $799.24; P. Peterson, $95; Registrar-General, Victoria, $110; G. C. Salt, $4; Sidney Hotel, $12.50	$ 1,098 74	
	Total expenditure, Wharves Generally		1,098 74
	Bridges Generally.		
	Superintendent of Bridges and Buildings, T. Kilpatrick, expenses, $1,574.63 British America Paint Co., Ltd., $1,060.50; Canadian Fairbanks-Morse Co., Ltd., $3; Dominion Junk & Machinery Co., $50; Dominion Rubber System (Pacific), Ltd., $19.52; Drake Hardware Co., Ltd., $17.55; Electric Blue Print & Map Co., $8.80; Hafer Machine Co., $221.93; J. Heaney, $10.25; Heaps Engineering Co., $3.80; King's Printer, $40.50; F. J. Williams, $1.99	$ 3,012 47	
	Total expenditure, Bridges Generally		3,012 47
	Maintenance and Upkeep of Launch "I'll Away."		
	Armstrong Bros., $197.45; R. Bensen, $1,159.40; A. D. Ball, $157.15; Canadian Fairbanks-Morse Co., Ltd., $55.34; Copas & Son, $112.68; Copas & Young, $19.36; W. H. Costello, $13.50; Gonsalves & Dames, $26; T. N. Hibben & Co., $1.25; Imperial Oil, Ltd., $370.80; F. Jeune & Bro., Ltd., $18.85; E. B. Marvin & Co., $50.23; J. Olsen, $12; Renney Wharf Co., $48; T. D. Sutherland, $23.15; E. J. Wall, $63.19; Wall & Teusz, $100.62; Western Packers, Ltd., $38.15	$ 2,467 12	
	Total expenditure, Launch "I'll Away"		2,467 12
	Carried forward	$2,276,871 86	$ 349,131 74

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*				
251.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*				
	Brought forward			$2,276,871 86	$ 349,131 74
	Incidentals.				
	Canadian Explosives, Ltd., $4,109.10; Electric Blue Print & Map Co., $1,662.16; Fleming Bros., $20; Giant Powder Co. of Canada, Ltd., $386.66; Island Blue Print & Map Co., $449.57; King's Printer, $3,530.70; Lands Department, $453.75; Patent Holding Co., $180.55; Pedlar-People, Ltd., $734; Times P. & P. Co., Ltd., $174.04		$ 11,700 53		
	Total expenditure, Incidentals			11,700 53	
	Total expenditure, Roads, Streets, Bridges, and Wharves				2,288,572 39
	Summary.				
	Roads and Streets	$1,702,300 17			
	Bridges	501,279 62			
	Wharves	46,069 81			
	Protection of River-banks	24,755 14			
	Launch "I'll Away"	2,467 12			
	Incidentals	11,700 53			
	Total	$2,288,572 39			
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS.				
	Subsidies and Maintenance:				
	Barnston Island Ferry.				
	Ferryman ..... G. Nisbet		$ 600 00		
	Miscellaneous:				
	C.P.R. Co., 35c.; Imperial Oil, Ltd., $81.48; James & McClughan, Ltd., $8.15; Mainland Navigation Co., Ltd., 90c.; Times P. & P. Co., Ltd., $5.60; Vancouver Province, $16; Vancouver Sun, $15.15		127 63		
				$ 727 63	
	Columbia River, Brisco (Upper) Ferry.				
	Pay-list		$ 96 25		
	Miscellaneous:				
	B.C. Ironworks, Ltd., $38.62; Wilkinson Co., Ltd., $66.05		104 67		
				200 92	
	Columbia River, Castlegar Ferry.				
	Ferryman ..... J. Davidson		$ 1,310 00		
	Pay-list		397 52		
	Miscellaneous:				
	Canadian Oil Companies, Ltd., $366.59; Canadian Fairbanks-Morse Co., Ltd., $7.76; J. Davidson, $9.75; Dominion Express Co., $3.30; Edgewood Lumber Co., Ltd., $34.95; W. J. Farmer, $27.25; Hudson's Bay Co., $21.60; Imperial Oil, Ltd., $237.50; R. M. Moore & Co., $67.42; Nelson Hardware Co., $233.72; Nelson Iron Works, Ltd., $92.66; Nelson News, 55c.; Patent Holding Co., $31.90; P. J. Rahal, $6.95; F. Salakin, $1.50; C. Trueit, $2.25; T. Watson, $20; West Transfer Co., $22.85; Wood-Vallance Hardware Co., $21.80		1,210 30		
				2,917 82	
	Columbia River, Donald Ferry.				
	Pay-list			78 68	
	Carried forward			$ 3,925 05	$2,637,704 13

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*			
	Brought forward		$ 3,925 05	$2,637,704 13
	Subsidies and Maintenance—*Continued.*			
	Columbia River, Goldstream Ferry.			
	Ferryman.....T. Maloney	$ 240 00		
	Pay-list	50 64		
			290 64	
	Francois Lake Ferry.			
	Ferryman.....Bruce Little	$ 1,500 00		
	Pay-list	2,784 75		
	Miscellaneous:			
	L. E. Ailport, $17.50; Akerberg, Thomson & Co., $97.35; W. Anderson, $22.50; Canadian Express Co., $18.08; J. N. Carr, $15; A. Chisholm, $515.26; S. A. Eby, $51; Electric Blue Print & Map Co., Ltd., 75c.; G.T.P. Railway Co., $227.11; H. G. M. Machine Shop, $67.80; Howe & McNulty, $93.14; C. E. Imeson & Co., $52.35; Imperial Oil, Ltd., $1,246.41; Interior News, $7.50; R. R. Jeffrey, $38.05; F. R. Keefe, $3,986.14; W. Kennedy & Sons, $22.50; A. W. LePage, $158.42; W. R. Love, $2.60; E. B. Marvin & Co., $16.20; J. Mellice, $30; J. McFail, $5; J. A. McLean, $178; A. Olson, $36.50; W. J. O'Neill, $57.75; Pacific Cartage Co., $12; Parkin & Ward Electric Co., $2.60; Prince Rupert News, $18; I. E. Prosser, $33.80; R. D. Prosser, $10.57; A. L. Ramsay, $24; W. Shaw, $190; H. C. Shinn, $28; I. Short, $174.20; C. C. Snowdon, $57.30; Stearns Hardware Co., $35.40; F. Stork, $11.32; Times P. & P. Co., Ltd., $8.40; Vancouver Province, $14.85; W. Weldon, $9; E. Woodworth, $55.55	7,647 90		
			11,932 65	
	Fraser River, Alexandria Ferry.			
	Ferryman (11 mos.).....J. Moffitt	$ 1,039 35		
	Pay-list	574 23		
	Miscellaneous:			
	B.C. Express Co., $123.88; B.C. Iron Works, $45.74; Cowan Supply Co., $22.76; J. A. Fraser, Ltd., $81; S. L. Hilborn, $143.15; D. W. Huston, $4.50; Inland Express Co., $5.10; J. A. Lazzerin, $88.10; Leith Bros., $5.94; Mussen's, Ltd., $5.80; G. McClurg, $4.25; Northern Hardware Co., $46.75; Quesnel Timber Trading Co., $49.35; H. J. Smith, $9.50	635 82		
			2,249 40	
	Fraser River, Agassiz–Rosedale Ferry.			
	Ferryman.....W. McGrath	$ 5,902 00		
	Pay-list	806 72		
	Miscellaneous:			
	Battery House, Ltd., $56.90; B.C. Draughting & Blue Print Co., $1.20; R. Burton, $4.13; C.P.R. Co., $42.67; M. Caneau, $2.50; Columbian Co., Ltd., $41.60; Cormack & Annand, $103.78; F. A. Cox, $73.50; Cunningham Hardware Co., $211.06; Dominion Express Co., 85c.; Dominion Steamboat Inspection, $25; W. Ennis, $25.92; Fraser & Dyer, $18; G.N.W. Telegraph Co., 50c.; W. Greenlees, $3,181.24; C. Inkman, $2; Johnston Storage Co.,			
	Carried forward	$ 6,708 72	$ 18,397 74	$2,637,704 13

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*				
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*				
	Brought forward		$ 6,708 72	$ 18,397 74	$2,637,704 13
	Subsidies and Maintenance—*Continued.*				
	Fraser River, Agassiz–Rosedale Ferry—Continued.				
	Miscellaneous—*Continued.*				
	$12; King's Printer, $13.40; T. P. Knight, $56.34; Magnet Electric Co., $8.70; R. A. Muir, $4.50; McLennan, McFeely & Co., $63; Star Ship Yard Co., $165; D. G. Sutherland, $404.80; T. J. Trapp & Co., Ltd., $26.16; Vancouver Engineering Works, Ltd., $510.40; A. C. Webster, $23.94; Weir & Taylor, $4.25; Wilkinson Co., Ltd., $261.43; J. H. Wilson, $583.16		5,927 93		
				12,636 65	
	Fraser River, Big Bar Ferry.				
	Ferryman	W. Bunnage	$ 900 00		
	Pay-list		1,460 31		
	Miscellaneous:				
	J. B. Bryson, $75; H. G. Caldwell, $6.62; C. I. Cover, $1; M. Dumond, $52.90; F. W. Engeman, $71.28; R. Fraser, $77.89; W. Johnston, $13.50; P. McMaster, $5.50; F. Riley, $96.25; W. J. Tait, $100; Western Canada Ranching Co., Ltd., $20.76		520 70		
				2,881 01	
	Fraser River, Chilliwack–Harrison Ferry.				
	Ferryman	H. Cartmell		1,000 00	
	Fraser River, Dunster Ferry.				
	Ferryman	A. D. Bonney	$ 763 55		
	Pay-list		252 00		
	Miscellaneous:				
	L. Allgeier, $1; R. E. Blackwood, 35c.; W. H. Chadwick, $8.50; J. P. Gaffney, $8; G.T.P. Railway Co., $31.80; Leith Bros., $22.57; G. A. Long, $20.03; Mussen's, Ltd., $1.13; Northern Hardware Co., $11.63; J. Shaw, $13.90; Valley Cedar Co., $13.16		132 07		
				1,147 62	
	Fraser River, High Bar Ferry.				
	Ferryman	W. J. MacDonald	$ 900 00		
	Pay-list		1,482 30		
	Miscellaneous:				
	S. S. Boyd, $4.20; H. G. Caldwell, $4.13; M. Dumond, $2.40; F. W. Engeman, $2.25; R. Fraser, $23.42; Gibson's. Ltd., $119.17; W. Johnston, $13.50; W. Madson, $8.25; P. McMaster, $5.50; P.G.E. Railway, $3.49; N. J. Tait, $119.60; Western Canada Ranching Co., Ltd., $20.74		326 65		
				2,708 95	
	Fraser River, Ladner–Woodward Ferry.				
	Salaries:				
	Captain	E. H. Groleau	$ 2,220 00		
	Engineer	D. Smith	2,160 00		
	Pay-lists		9,673 33		
	Miscellaneous:				
	Anderson & Lusby, $88.40; G. T. Baker, $398.85; W. T. Barr, $454; Beylea & Co., $2; B.C. Drafting & Blue Printing Co., $7.50; B.C.E.R. Co., Ltd.,				
	Carried forward		$ 14,053 33	$ 38,771 97	$2,637,704 13

No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*			
	Brought forward		$ 38,771 97	$2,637,704 13
	Subsidies and Maintenance—*Continued.*			
	Fraser River, Ladner–Woodward Ferry—Continued.			
	Miscellaneous—*Continued.*			
	$10; Boyd & Jackson, $12,850.45; Burr Office Supplies, $1.05; City Market, $2; Clement & Lambert, $29.35; Collector of Customs, $90; Columbian Co., Ltd., $66.96; Crane, Ltd., $27.30; Cunningham Hardware Co., $131.83; Dominion of Canada Guarantee & Accident Insurance Co., $3.75; Electric Blue Print & Map Co., $14.45; Eburne Saw Mills, Ltd., $19.50; F. B. Fisher, $146.50; Fleck Bros., Ltd., $7.75; S. B. Fleming, 50c.; Fraser River Pile Driving Co., $847.90; Gilley Bros., Ltd., $12,264; Gordon & Belyea, Ltd., $10.72; W. Greenlees, $83.76; Harbour Shipping Co., Ltd., $630; Heaps Engineering Co., Ltd., $45.50; G. C. Hogg, $10.05; W. R. Jaynes, $140; C. H. Jones & Son, Ltd., $75.50; J. Jordan, $2.50; King's Printer, $30; Ladner Lumber, Ltd., $10.05; E. C. W. Lamarque, $40.65; Lanning, Fawcett & Wilson, Ltd., $804.10; Main Garage, $18; Merchants, Ltd., $310.60; C. Moulton, $5.70; Mustard & Symington, $246.45; McLennan, McFeely & Co., Ltd., $134.63; A. McNeely, $50; J. F. Neilson, $97.75; Nicholson, Ltd., $156.67; Pemberton & Son, $90; B. Round, $20; B. W. Shiles, $5; Star Ship Yard Co., $742.43; D. G. Sutherland, $776.25; A. G. Swan, $66.95; Taylor Electric Co., Ltd., $5.70; Times P. & P. Co., Ltd., $36.50; I. D. Todd, $49; T. J. Trapp & Co., $36.03; W. Turner, $200; Vancouver Engineering Works, Ltd., $1,027.32; Vancouver Province, $77.25; Vancouver Sun, $53.70; Vulcan Iron Works, Ltd., $295; Westminster Iron Works, $363.09; White Star Motor Line, $8.25; World, Ltd., $20.55	34,239 69		
			48,293 02	
	Fraser River, Lytton (above) Ferry.			
	Ferryman.....J. Johnson	$ 900 00		
	Miscellaneous:			
	B. Rebagliati	3 50		
			903 50	
	Fraser River, Macalister Ferry.			
	Ferryman.....F. S. Leonard	$ 360 00		
	Pay-list	2,433 74		
	Miscellaneous:			
	B.C. Express Co., $11.58; F. G. Choate, $7.75; Cowan Supply Co., $26.20; G. Duclos, $23.75; Joyce & Johnston, $312.88; J. King, $60; J. A. Lazzerin, $230.75; D. Liddell, $13.50; M. Montgomery, $30.75; Northern Hardware Co., $188.30; H. Reed, $85.13; J. Shepherd, $16; W. Webster, $149.70; Western Hardware Co., Ltd., $642; A. T. Windt, $188.66	1,986 95		
			4,780 69	
	Fraser River, McBride Ferry.			
	Ferryman.....J. Sharples	$ 666 00		
	Pay-list	313 50		
	Miscellaneous:			
	A. P. Anderson, $117.60; B.C. Iron Works, Ltd., $38.09; A. Donaldson, $47.50; Goodman Supply			
	Carried forward	$ 979 50	$ 92,749 18	$2,637,704 13

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No. of Vote.	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*			
	Brought forward	$ 979 50	$ 92,749 18	$2,637,704 13
	Subsidies and Maintenance—*Continued.*			
	Fraser River, McBride Ferry—Continued.			
	Miscellaneous—*Continued.* Co., $37.95; G.T.P. Railway Co., $3.68; J. W. Hagley, $97.06; Leith Bros., $9.84; McBride Trading Co., $5.70; F. G. McDonald, $16.50; Tindill's Express, $8	381 92		
			1,361 42	
	Fraser River, Mission Ferry.			
	Salaries:			
	Captain .....A. A. McKenzie	$ 1,868 47		
	Engineer .....J. Grant	1,720 72		
	Pay-list	4,747 91		
	Miscellaneous: H. Alanson, $35.90; Anderson & Lusby, $229.31; J. A. Bates, $4.60; Battery House, Ltd., $22; Belyea & Co., $2.42; J. Bowie, $3.55; B.C.E.R. Co., Ltd., $10; Brunette Sawmills, Ltd., $8.32; C. Burton, $3; C.P.R. Co., $4.03; J. Cannon, $55.75; Central Garage, $27.75; Collector of Customs, $60.60; Cormack & Annand, $6; F. A. Cox, $69.67; Crane, Ltd., $2; Cunningham Hardware Co., $46.72; T. E. Cutler, $61.50; Dominion Express Co., $7.20; M. R. Dyer, $63.75; W. Ellis, $21.85; Fraser & Dyer, $102.64; Fraser River Pile Driving Co., $1,928.34; Gilley Bros., Ltd., $3; T. Gourley, $11.20; J. Grant, $133.95; Hargitt Motors, Ltd., $16.90; G. H. Hewitt Co., Ltd., $1.98; Houghton & Evans, $1.10; C. Illingworth, $7; Imperial Oil, Ltd., $2,920.98; James & McClughan, $184.80; C. H. Jones & Son, Ltd., $164.31; Lane Bros., $2.59; R. P. Latta & Co., $22.75; J. H. Lawrence, $17.50; Manzer Bros. & Bain, $42.17; Mainland Navigation Co., Ltd., $22.25; Monarch Towing & Trading Co., Ltd., $80; C. C. Moore & Co., $60.03; J. McCormick, $37.80; J. D. Kay, $8.10; A. A. McKenzie, $160; C. Moulton, $408.39; Northern Electric Co., Ltd., $592.40; E. Osborne & Son, $1.50; J. Plumridge, 25c.; postage, $7; Progressive Steamboat Co., Ltd., $150; Savoy Hotel, $1.25; Silverdale Lumber Co., Ltd., $144.37; Simson, Balkwill & Co., $231.38; Small & Bucklin, $27.07; Star Ship Yard Co., $105.99; A. Stephen, $1; J. A. Stuart, $2; L. Towell, $240; T. J. Trapp & Co., Ltd., $326.28; Vancouver Province, $4.80; Vancouver Engineering Works, Ltd., $390.28; Vancouver Sun, $8.40; J. Walker, $24.80; Webb & Gifford, $12.05; Westminster Iron Works, Ltd., $1,219.99; World, Ltd., $7.80; Yarrows, Ltd., $5,788.84	16,371 15		
			24,708 25	
	Fraser River, Quesnel Ferry.			
	Ferryman .....E. S. Carson	$ 228 00		
	Ferryman .....H. H. Perry	791 03		
	Pay-list	1,268 43		
	Miscellaneous: A. Boyd, $52.05; H. Boyd (Indian), $6; B.C. Iron Works, $45.75; Cowan Supply Co., $62.95;			
	Carried forward	$ 2,287 46	$118,818 85	$2,637,704 13

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*				
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*				
	Brought forward	$	2,287 46	$118,818 85	$2,637,704 13
	Subsidies and Maintenance—*Continued.*				
	Fraser River, Quesnel Ferry—Continued.				
	Miscellaneous: H. Dell, $9.50; L. Duclos, $2.12; J. A. Fraser, Ltd., $39.45; F. Gingras, $4.75; H. Hanson, $25; R. Hill, $14.87; C. D. Hoy, $1.50; Johnston Bros., $51.50; I. Kent, $2.37; J. A. Lazzerin, $35.35; W. Lee & Co., $14; Mussen's, Ltd., $5.80; Northern Hardware Co., $58.19; Quesnel Timber & Trading Co., $41.88; H. Reed, $32.50; G. Warren, $3.87....		509 40		
				2,796 86	
	Fraser River, Soda Creek Ferry.				
	Ferryman.....A. Crowston	$	846 00		
	Ferryman.....J. Moore		86 04		
	Ferryman.....A. Pierce		153 87		
	Pay-list		143 50		
	Miscellaneous: B.C. Iron Works, $45.84; Cowan Supply Co., $33.05; L. J. Crosina, $13.90; J. A. Fraser, $10.70; Inland Express Co., $3.55; Louie Co., $20.55; G. C. Mackay, $1.98; G. Rankin, $30.40		159 97		
				1,389 38	
	Fraser River, 20-Mile Post Ferry (above Lillooet).				
	Ferryman.....J. Montgomery			900 00	
	Hall's Landing Ferry.				
	Ferryman.....T. S. Huggard	$	1,140 00		
	Pay-list		306 08		
	Miscellaneous: City Transfer Co., $1; J. B. McGaghran, $14; S. McMahon, $1; Nelson Hardware Co., $49.05; Sturdy Hardware Co., $58.90		123 95		
				1,570 03	
	Horsefly River, Woodjam Ferry.				
	Pay-list	$	781 50		
	Miscellaneous: B.C. Express Co., 50c.; A. B. Campbell, $13.20; C. R. Carfrae, $4.50; Cariboo Trading Co., $4; Fraser & Mackenzie, $4.71; Gibson's, Ltd., $84.44; T. O. Hooker, $111.57; Inland Express Co., $2.15; J. King, $42; J. A. Lazzerin, $45.50; Leith Bros., $5.40; W. A. MacKenzie, $40.25; H. W. Mainguy, $10.33; A. Meiss, $7.35; A. Patenaude, $3; H. Reed, $52.10; M. Ritchie, $3; R. Robertson, $4.60		438 60		
				1,220 10	
	Kitsault Ferry.				
	Pay-list	$	202 00		
	Miscellaneous: T. W. Falconer, $16.05; Granby Consolidated Mining, Smelting & Power Co., $235; Kergin & Fowler, $5; Silversides Bros., $4.90		260 95		
				462 95	
	Kootenay River, Lewis Ferry.				
	Pay-list			63 00	
	Carried forward			$127,221 17	$2,637,704 13

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*				
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*				
	Brought forward			$127,221 17	$2,637,704 13
	Subsidies and Maintenance—*Continued.*				
	Kootenay River, Reclamation Farm Ferry.				
	Ferryman.....F. K. Hurry	$	1,140 00		
	Pay-list		209 75		
	Miscellaneous:				
	Hardware & Furniture Supply Co., $5.75; Mawson Bros., $11; Nelson Hardware Co., $133.20; S. A. Speers, $23.85; Wood-Vallance Hardware Co., Ltd., $95		268 80		
				1,618 55	
	Nechako River, Braeside Ferry.				
	Ferryman.....H. Worthington	$	758 52		
	Pay-list		389 64		
	Miscellaneous:				
	B.C. Ironworks, Ltd., $38.09; G.T.P. Rly., $3.68; H. Gross, Ltd., $25; Leith Bros., $94.08; G. Little, $77.02; H. C. Ludwig, $5; R. C. McCorkell, $8.50		251 37		
				1,399 53	
	Nechako River, Hulatt Ferry.				
	Ferryman.....E. Fielder	$	270 00		
	Ferryman.....H. Whicher		360 00		
	Pay-list		161 64		
	Miscellaneous:				
	B.C. Ironworks, Ltd., $38.09; Canadian Express Co., 35c.; G.T.P. Co., $3.68; Hulatt Mercantile Co., $5.25; Leith Bros., $27.58; R. C. McCorkell, $27.60		102 55		
				894 19	
	Nechako River, No. 3 Indian Reserve Ferry.				
	Ferryman.....J. Bracey	$	547 93		
	Pay-list		510 45		
	Miscellaneous:				
	A. P. Anderson, $10.13; B.C. Ironworks, Ltd., $38.09; E. Cahoon, $8.50; Canadian Express Co., $2.75; R. J. Garvey, $10; G.T.P.R. Co., $5.98; Harper & Gross, $10; F. J. Johnston, $25; Leith Bros., $62.16; C. MacPhee, $104.25; E. E. McPhee, $83.25; Northern Hardware Co., $17.38; Rush Transfer Co., $2; G. B. Williams, $1.40		380 89		
				1,439 27	
	North Thompson River, Black Pool Ferry.				
	Ferryman.....H. Bester	$	780 00		
	Pay-list		250 00		
	Miscellaneous:				
	C.N.R. Co., $2.17; W. J. Ellis & Co., $6.76; Wilcox-Hall Co., Ltd., $1.20		10 13		
				1,040 13	
	North Thompson River, Birch Island Ferry.				
	Ferryman.....R. Alexander	$	720 00		
	Pay-list		86 25		
	Miscellaneous:				
	R. Alexander, $4.34; C.N.R. Co., $7.05; N. S. Dalgleish, $3.10; Wilcox-Hall Co., $5.75		20 24		
				826 49	
	Carried forward			$134,439 33	$2,637,704 13

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*				
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*				
	Brought forward			$134,439 33	$2,637,704 13
	Subsidies and Maintenance—*Continued.*				
	North Thompson River, Chinook Cove Ferry.				
	Ferryman.....A. L. Foster		$ 720 00		
	Miscellaneous:				
	C.N.R. Co., $24.83; Macbeth & Miller, $175.05; Wilcox-Hall Co., Ltd., $45.57		245 45		
				965 45	
	North Thompson River, Clearwater Ferry.				
	Ferryman.....W. G. Harby		$ 960 00		
	Pay-list		227 75		
	Miscellaneous:				
	C.N.R. Co., $5; N. S. Dalgleish, $5.90		10 90		
				1,198 65	
	North Thompson River, McLure Station Ferry.				
	Ferryman.....G. Brown		$ 518 71		
	Ferryman.....R. Jones		201 29		
	Miscellaneous:				
	N. S. Dalgleish, $55; W. J. Ellis & Co., $4.08; Macbeth & Miller, $467.18; A. Thompson, $1.95; Wilcox-Hall Co., Ltd., $30.10		558 31		
				1,278 31	
	North Thompson River, Mount Olie Ferry.				
	Ferryman.....J. Harton		$ 80 00		
	Ferryman.....W. P. Williamson		880 00		
	Miscellaneous:				
	C.N.R. $1.32; N. S. Dalgleish, $67.85; Farmers' Exchange Association, $9.25; Wilcox-Hall Co., Ltd., $5.10		83 52		
				1,043 52	
	North Thompson River, Vavenby Ferry.				
	Ferryman.....J. Campbell		$ 81 29		
	Ferryman.....D. Pridgeon		120 00		
	Ferryman.....H. Reeves		518 71		
	Pay-list		185 25		
	Miscellaneous:				
	C.N.R. Co., 82c.; N. S. Dalgleish, $7.50; Wilcox-Hall Co., Ltd., $51.25		59 57		
				964 82	
	North Thompson River, Vinsulla Ferry.				
	Ferryman.....W. J. Glanville		$ 720 00		
	Pay-list		174 00		
	Miscellaneous:				
	C.N.R. Co., 75c.; C.P.R. Co., $6.84; N. S. Dalgleish, $2.35; Wilcox-Hall Co., Ltd., $9.60		19 54		
				913 54	
	Okanagan Lake, Summerland-Naramata Ferry.				
	Ferryman.....Okanagan Lake Boat Co., Ltd.		$ 2,500 00		
	Miscellaneous:				
	King's Printer, $18.70; Vernon News Printing & Publishing Co., $20.72		39 42		
				2,539 42	
	Carried forward			$143,343 04	$2,637,704 13

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*			
	Brought forward		$143,343 04	$2,637,704 13
	Subsidies and Maintenance—*Continued.*			
	Okanagan Lake, Kelowna–Westbank Ferry.			
	Ferryman.....L. A. Hayman .....$	4,000 00		
	Pay-list	8 50		
	Miscellaneous:			
	H. H. B. Abbott, $206.50; Kelowna Courier, $18.25; Kelowna Saw Mill Co., $21.85; King's Printer, $15.40; Vernon News Printing & Publishing Co., $23.52	285 52		
			4,294 02	
	Parson Ferry.			
	Pay-list .....$	157 90		
	Miscellaneous:			
	C.P.R. Co., 50c.; Columbia River Lumber Co., $10.74; Dartt & Patterson, $23.93; A. C. Hamilton, $1; S. High, $440.66; W. Hughes, $14.50; Wilkinson Co., Ltd., $39.31	530 64		
			688 54	
	Peace River Ferry.			
	Miscellaneous:			
	B.C. Ironworks, Ltd., $76.18; G.T.P.R. Co., $7.38		83 56	
	Quesnel River, Gravel's Ferry.			
	Ferryman.....J. Cantin .....$	250 00		
	Ferryman.....J. Gravel	225 00		
	Pay-list	290 75		
			765 75	
	Shuswap Lake, Sorrento–Scotch Creek Ferry.			
	Ferryman.....E. T. Myers .....$	1,309 35		
	Pay-list	271 23		
	Miscellaneous:			
	Adams River Lumber Co., Ltd., $23.25; J. Armstrong, $101.42; M. Balmer, $7.20; L. C. Byers, $73.50; C.P.R. Co., $153.60; N. S. Dalgleish, $10.12; C. C. Davidson, $25; Dominion Express Co., $3.31; W. J. Dunn, $9.72; Dominion Government Telegraphs, $60; W. J. Ellis & Co., $4.05; O. G. Freeman, $3; R. E. Grice-Hutchinson, $716.67; W. Hargreaves, 75c.; Ideal Iron Works, $31.60; A. R. MacKay, $63.93; Moscrop & Elliott, $1,930; Notch Hill Trading Association, $9.40; E. G. Prior & Co., Ltd., $117.36; The Safe, Ltd., $12.90; W. Sutherland, $10.65; F. Syson, $966.18; Times Printing & Publishing Co., Ltd., $18.50; H. Turner, $371; Vancouver Province, $28.95; Vancouver Ship Yard, Ltd., $4.752; H. P. Weaver, $20; Wilcox-Hall Co., Ltd., $20.90	9,544 96		
			11,125 54	
	South Thompson River, Ducks Ferry.			
	Ferryman.....R. Rees .....$	720 00		
	Pay-list	129 75		
	Miscellaneous:			
	C.P.R. Co., $3.50; Dominion Express Co., 85c.; Wilcox-Hall Co., Ltd., $23.80	28 15		
			877 90	
	Carried forward		$161,178 35	$2,637,704 13

No. of Vote.	SERVICE.		Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*			
	Brought forward		$161,178 35	$2,637,704 13
	Subsidies and Maintenance—*Continued.*			
	Stuart River, Fort St. James Ferry.			
	Ferryman.....J. Alexander.....	$ 747 00		
	Pay-list	248 94		
	Miscellaneous:			
	B.C. Ironworks, Ltd., $38.09; J. Campbell, $13.20; G.T.P.R. Co., $3.68; Hudson's Bay Co., $45.10; Leith Bros., $10.83; G. Little, $13.53; A. C. Murray, $3; T. P. Smithers, $6	133 43		
			1,129 37	
	Stuart River, Sturgeon Point Ferry.			
	Ferryman.....F. W. Bale.....	$ 240 00		
	Pay-list	31 88		
	Miscellaneous:			
	P. Dorian, $145; J. W. Hamilton, $20	165 00		
			436 88	
	Skeena River, Cedarvale Ferry.			
	Ferryman.....W. Moberley.....	$ 456 78		
	Pay-list	371 38		
	Miscellaneous:			
	Howe & McNulty, $16.43; W. Moberley, $25; D. McLarty, $5; Pacific Cartage, Ltd., 85c.; T. R. Tomlinson, $88.49	135 77		
			963 93	
	Skeena River, Copper City Ferry.			
	Pay-list	$ 32 50		
	Miscellaneous:			
	P. Dorian, $145; E. W. Erickson, $80; G. Little, $2.75; Howe & McNulty, $6.25; P. R. Skinner, $12.90	246 90		
			279 40	
	Skeena River, Hazelton Ferry.			
	Ferryman.....S. Jones.....	$ 400 00		
	Pay-list	68 25		
	Miscellaneous:			
	R. Cunningham & Son, Ltd., $41.95; Hudson's Bay Co., $2.50; J. MacKay, $4	48 45		
			516 70	
	Skeena River, Kitwanga Ferry.			
	Ferryman.....W. Washburn.....	$ 60 64		
	Pay-list	1,148 75		
	Miscellaneous:			
	Howe & McNulty, $17.20; J. Hunter, $26.60; G. Little, $13.41; Murray's Welding Shop, $15; Pacific Cartage, Ltd., $1.90; J. Ryan, $2.50; F. Stork, $12.40	89 01		
			1,298 40	
	Skeena River, Pacific Ferry.			
	Ferryman.....J. Anderson.....	$ 367 50		
	Ferryman.....J. Burns.....	287 00		
	Miscellaneous:			
	J. Anderson, $1.35; Howe & McNulty, $64.71; J. Hunter, $11; T. H. McCubbin, $3.10; Rupert Marine Iron Works, $55.80; F. Stork, $43.25	179 21		
			833 71	
	Carried forward		$166,636 74	$2,637,704 13

No. of Vote.	SERVICE.			Expended.	
	DEPARTMENT OF PUBLIC WORKS—*Continued.*				
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*				
	Brought forward			$166,636 74	$2,637,704 13
	Subsidies and Maintenance—*Continued.*				
	Skeena River, Remo Ferry.				
	Ferryman.....A. King	$	480 00		
	Pay-list		700 01		
	Miscellaneous:				
	J. L. Bethurem, $10; P. Dorian, $145; S. Dorian, $17.75; G.T.P.R. Co., $56.60; Howe & McNulty, $23.33; A. King, $13.50; Kitsumgallum Timber Co., $65.86; Pacific Cartage, $7.63; Steen & Longwill, Ltd., $19.45		359 12		
				1,539 13	
	Skeena River, Terrace Ferry.				
	Ferryman.....P. McDonald	$	1,320 00		
	Pay-list		1,241 38		
	Miscellaneous:				
	P. Dorian, $145; G.T.P.R. Co., $10.99; Howe & McNulty, $6.40; J. Hunter, $42.20; J. B. Johnston, $10.50; F. Lazelle Co., $51.13; G. Little, $86.52; Pacific Cartage, Ltd., $2.50; Skeena River Co-operative Association, $22.75; W. E. Smith, $5; F. Stork, $144.12; Terrace Transfer, $1.50		528 61		
				3,089 99	
	Skeena River, Usk Ferry.				
	Ferryman.....M. C. Kendall	$	265 81		
	Ferryman.....J. Smith		352 90		
	Ferryman.....B. Seymour		519 35		
	Pay-list		3,170 88		
	Miscellaneous:				
	Albert & McCaffery, Ltd., $44.10; J. Brown, $2.50; Cameron Lumber Co., Ltd., $929.74; C.P.R. Co., $136.39; G.T.P.R. Co., $109.89; Howe & McNulty, $651.28; J. Hunter, $299.50; M. C. Kendall, $54.05; Kenny Bros., Ltd., $65.56; Kleanza Co., Ltd., $32.25; F. Lazelle Co., $3; Lepine & Wright, $49.44; D. McLarty, $1.85; J. Oliver, $6; Pacific Cartage, Ltd., $125.24; Prince Rupert Dry Dock Co., Ltd., $21; E. H. Shockley, $147.20; P. R. Skinner, $2; H. Steen, $2.53; R. S. Wright, Ltd., $11		2,694 52		
				7,003 46	
	Takla Lake Ferry.				
	Ferryman.....Bear Lake Tom			200 00	
	Upper Nass River, Grease Harbor Ferry.				
	Ferryman.....A. F. Priestley			492 50	
	West Arm, Kootenay Lake, Nelson Ferry.				
	Ferryman.....G. Clerihew	$	1,810 00		
	Ferryman.....B. Hodgson		14 50		
	Pay-list		2,838 25		
	Miscellaneous:				
	D. Bourgoyne, $101; B C. Ironworks, Ltd., $38.62; B.C. Telephone Co., Ltd., $18.25; J. Burns & Son, $2; Canadian Oil Co., Ltd., $25.76; City Drug & Stationery Co., $3.25; Collector of Customs, $2.29; A. Cruickshank, $15.75; W. Dewar, $1.50;				
	Carried forward	$	4,662 75	$178,961 82	$2,637,704 13

No. of Vote	SERVICE.			Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*			
252.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS—*Continued.*			
	Brought forward	$ 4,662 75	$178,961 82	$2,637,704 13
	Subsidies and Maintenance—*Continued.*			
	West Arm, Kootenay Lake, Nelson Ferry—Continued.			
	Miscellaneous—*Continued.*			
	E. Doucette, $142.34; Dominion Express Co., $1.70; Fleming Store, $2.65; Imperial Oil, Ltd., $1,311.29; A. Jeffreys, $1.50; A. G. Lambert, $13.84; Lighting Devices, Ltd., $56.53; J. W. Linebaugh, $1; H. A. Masters, $40; R. M. Moore & Co., $7.63; E. N. MacBeth, $5; Nelson Hardware Co., $80.41; Nelson Iron Works, Ltd., $502.90; Nelson News, $2.25; Nelson Transfer Co., $6.50; J. J. O'Donnell, $15; Patent Holding Co., $15.95; J. O. Patenaude, $3.50; P. J. Rahal, $4.50; S. Silverhorn, $96; Smedley's Garage, $66.47; Vancouver Machine Depot, Ltd., $28.60; J. Webster, $42.75; West Transfer Co., $175.68; Wilkinson Co., Ltd., $499.80; F. Williams, $1.50; Witte Engine Works, $24.26; Wood-Vallance Hardware Co., $180.28	3,538 25		
			8,201 00	
	Bridge-tender, Canoe Pass.			
	J. Berney		720 00	
	Bridge-tender, Eburne.			
	E. Thomas		1,080 00	
	Bridge-tenders, Kamloops.			
	G. Clapperton, $360; J. Ratchford, $180		540 00	
	Bridge-tenders, Pitt River.			
	J. R. Scott, $960; A. McRae (Watchman), $720		1,680 00	
	Bridge-tender, Pritchard.			
	A. E. Boyde (Watchman)		20 00	
	Steamboat, North-east Arm, Arrow Lake.			
	J. Fitzsimmons, $2,900; King's Printer, $9; Revelstoke Review Publishing Co., $10		2,919 00	
	Steamboat, Dog Lake, Similkameen.			
	South Okanagan Lake Transportation Co.		1,250 00	
	Steamboat, Shuswap Lake.			
	Arrow Lakes Lumber Co., $2,500; King's Printer, $17.50; Notch Hill Trading Association, Ltd., $2,900; Observer P. & P. Co., $14.75; Vancouver Sun, $74.40; Vernon News P. & P. Co., $22.72		5,529 37	
	Incidentals.			
	B.C. Ironworks, Ltd., $142.13; C.P.R. Co., $6.86; J. Kemp, $2.38		151 37	
	Total expenditure, Steamboats, Ferries, and Bridge-tenders			201,052 56
	SPECIAL WARRANT No. 5—"HIGHWAY ACT AMENDMENT ACT," RE RULE OF THE ROAD.			
	Ashcroft Journal, $11; B.C. Retailer, $15; B.C. Veterans' Weekly, $40.32; Cariboo Observer, $10; Central Interior Printing Co., Ltd.,			
	Carried forward			$2,838,756 69

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
	SPECIAL WARRANT NO. 5—"HIGHWAY ACT AMENDMENT ACT," RE RULE OF THE ROAD—*Continued.*		
	Brought forward		$2,838,756 69
	$12; Chilliwack Progress, $6; Colonist P. & P. Co., Ltd., $70; Columbian Co., Ltd., $24; Comox Argus, $7.20; Cowichan Leader P. & P. Co., Ltd., $9; Cranbrook Courier, $10; Creston Review, $8; Empire Publishing Co., $84; Fairplay, $22.50; Farm and Home, $114.80; Fernie Free Press, $10; Gazette Printing Office, $7; Golden Star Publishing Co., $10; Grand Forks Sun, $5; J. W. Grier, $5; Interior News, $9.60; Island Motorist, $20; Kamloops Press, Ltd., $4.50; Kamloops Telegram, $21.75; Kelowna Courier, $8; King's Printer, $177.50; Kitsilano Times, $12; Ladysmith Chronicle, $24; Lands Department, $382.20; The Ledge, $10; Macbeth & Miller, Ltd., $3; News P. & P. Co., Ltd., Prince Rupert, $50; News Publishing Co., Nelson, $14; North Shore Press, Ltd., $9; Observer P. & P. Co., Ltd., $8; Omineca Herald, $10; Pacific Coast Lumberman, $22; Penticton Herald, $10; Port Alberni News, $8; Portland Canal News, $10; Princeton Star, $6; Progress Publishing Co., Ltd., $14; Revelstoke Review Publishing Co., Ltd., $8; Review Publishing Co., Ltd., Summerland, $8; Rossland Saturday Night Miner, $10; Terrace News, $7; Times P. & P. Co., Ltd., $84; Vancouver Daily Province, $100.50; Vancouver Daily Sun, $84; Vernon News P. & P. Co., Ltd., $12; Weekly Gazette, $10; Western Canadian Motorist, $110; Western Idea, Ltd., $12.50; Wooden Shingle, Ltd., $34.30; The World, Ltd., $105	$ 1,899 67	
			1,899 67
	SPECIAL WARRANT NO. 34—RE UNEMPLOYMENT RELIEF.		
	Comox District:		
	E. & N. Railway Co., 50c.; pay-lists, $510.50	$ 511 00	
	Cowichan District:		
	D. R. Hattie, $10.55; H. Peile, $2.50; pay-lists, $777	790 05	
	Dewdney District:		
	Pay-list	1,368 39	
	Esquimalt District:		
	Canadian Explosives, Ltd., $2.76; W. S. Fraser & Co., Ltd., $690.47; General Service Transport Co., $60; Imperial Oil, Ltd., $382.10; F. Jeune & Bro., Ltd., $455.95; Lemon-Gonnason Co., Ltd., $88.93; E. B. Marvin & Co., $38.30; H. W. Simpson, $6; Victoria Baggage Co., $396.25; Victoria Bed & Mattress Co., Ltd., $144; pay-lists, $9,321.16	11,585 92	
	Islands District:		
	Canadian Explosives, Ltd., $88.83; D. Craig, $20.90; J. Critchley, $36.40; Evans, Coleman & Evans, Ltd., $2,024.02; W. S. Fraser & Co., Ltd., $184.95; Hafer Machine Co., $3.75; Imperial Oil, Ltd., $29.19; F. Jeune & Bro., Ltd., $1.40; E. B. Marvin & Co., $7.10; E. G. Prior & Co., Ltd., $8.55; Sidney Mills, Ltd., $25.57; Sidney Trading Co., Ltd., $46.96; Victoria Baggage Co., $35; Victoria Machinery Depot Co., Ltd., $28.13; pay-lists, $9,806.20	12,346 95	
	Kamloops District:		
	Adams River Lumber Co., Ltd., $54.27; R. C. Blackburn, $7.50; R. P. Bradley, $14.50; Brayden & Johnston, $48.25; C.P.R. Co., $37.92; N. S. Dalgleish, $4.79; F. Elliott, $10; Granite Trading Association, $5.66; Harvey, Bailey, Ltd., $240; J. Milton, $33; S. J. McDiarmid, $14.75; Tappen Store, $2.45; B. W. Veach, $18.75; pay-lists, $8,354.41	8,846 25	
	Newcastle District:		
	P. Bennett, $68.07; Canadian Explosives, Ltd., $324.77; R. S. Colclough, $27.50; E. & N. Railway Co., $5.40; W. S. Fraser & Co., Ltd., $367.47; J. R. Grayshon, $19.55; Imperial Oil, Ltd., $3.72; A. McDonald, $3.60; Nanaimo Lumber Co., $26.01; New		
	Carried forward	$ 35,448 56	$2,840,656 36

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF PUBLIC WORKS—*Continued.*		
	SPECIAL WARRANT NO. 34—RE UNEMPLOYMENT RELIEF—*Continued.*		
	Brought forward	$ 35,448 56	$2,840,656 36
	Newcastle District—*Continued.*		
	Ladysmith Lumber Co., Ltd., $13.20; C. Peterson, $102.71; W. Rollston, $16.55; G. Rumble, $144.90; Sampson Motor Co., $17.89; pay-lists, $13,310.14	14,451 48	
	North Okanagan District:		
	Pay-lists	881 00	
	Slocan District:		
	Pay-lists	142 19	
	Trail District:		
	Canadian Explosives, Ltd., $220.30; A. Cruickshank, $9.50; Giant Powder Co. of Canada, Ltd., $14.04; Nelson Hardware Co., $147.43; Smedley's Garage, $7.50; West Transfer Co., $3.50; pay-lists, $4,883.67	5,285 94	
	Yale District:		
	R. F. Barrett, $12.50; T. Curnow, $3; Kettle Valley Railway Co., $21.43; pay-lists, $686.25	723 18	
			56,932 35
	Total expenditure, Department of Public Works		$2,897,588 71
	DEPARTMENT OF RAILWAYS.		
253.	GENERAL OFFICE.		
	Salaries ($18,429.96):		
	Chief Engineer ..... A. F. Proctor	$ 4,500 00	
	Assistant Engineer ..... R. W. Macintyre	2,760 00	
	Inspector of Rolling-stock and Equipment ..... W. Rae	3,000 00	
	Assistant Inspectors of Rolling-stock and Equipment:		
	A. McFee ..... $2,400 00 J. H. Short $2,400 00	4,800 00	
	Chief Clerk ..... D. M. Campbell	1,599 96	
	Stenographers:		
	R. McColl ..... $870 00 K. Tangye $30 00		
	B. McLennan 870 00	1,770 00	
		$ 18,429 96	
	Expenses ($5,364.13):		
	Office Supplies, etc.:		
	Barrett Co., Ltd., $17.67; B.C. Telephone Co., Ltd., $57.02; D. M. Campbell, 20c.; Canadian Express Co., 65c.; Canadian Fairbanks-Morse Co., Ltd., $72.22; C.P.R. Telegraphs, $40.57; Canadian Railway and Marine World, $2; Department of Public Printing and Stationery, Ottawa, $6; Dominion Express Co., $5.95; Dominion Government Telegraphs, $3.47; Electric Blue Print & Map Co., $23.80; Engineering News-Record, $7.77; W. S. Fraser & Co., Ltd., $1.25; G.N.W. Telegraph Co., $7.71; G.T.P. Telegraph Co., $2.30; J. Hanbury & Co., Ltd., $27.55; E. S. Harris, 50c.; R. S. Hines, $15; Island Blue Print & Map Co., $53.37; King's Printer, $1,031.76; Law Reporting Co., $5.84; H. Malkan, $11; W. T. McArthur & Co., Ltd., $6.50; McGraw-Hill Book Co., Inc., $6.86; National Motor Co., Ltd., $970.70; Office Specialty Manufacturing Co., Ltd., $96.75; postage, $235; E. G. Prior & Co., $2.28; Railway Equipment & Publication Co., $5.40; Reliable Transfer Co., $1.90; Storey & Campbell, $27.77	2,746 76	
	Travelling Expenses:		
	R. W. Macintyre, $31.10; A. McFee, $1,034.55; Hon. J. Oliver, $127; W. Rae, $433.47; J. Short, $991.25	2,617 37	
	Total expenditure, General Office		$ 23,794 09
	Carried forward		$ 23,794 09

No. of Vote.	SERVICE.		Expended.
	DEPARTMENT OF RAILWAYS—*Continued.*		
	Brought forward		$ 23,794 09
254.	FRASER RIVER BRIDGE, NEW WESTMINSTER.		
	Salaries ($19,534.40):		
	Superintendent .....T. S. Gifford	$ 2,100 00	
	Pay-lists, sundry employees	17,434 40	
		$ 19,534 40	
	Expenses ($32,933.59):		
	Maintenance and Repairs:		
	Anderson & Lusby, $76.07; Barrett Co., $143.76; Belyea & Co., $94.75; Blue Funnel Motor Line, 25c.; British America Paint Co., Ltd., $2,422.82; B.C.E.R. Co., Ltd., $1,348.40; B.C. Telephone Co., Ltd., $123.72; Brunette Saw Mills, $18.72; Bucklin Lumber Co., $34.97; Canadian National Railways, $1,253.14; City of New Westminster, $201.75; Columbian Co., Ltd., $28; Crossman Electrical Machinery Co., Ltd., $200.38; S. J. Davison, 35c.; Dominion Express Co., $1.75; Dominion Rubber System (Pacific), Ltd., $23.62; Fraser River Pile Driving Co., Ltd., $16,193.16; General Railway Signal Co., $337.90; Gilley Bros., Ltd., $83.25; Great Northern Railway Co., $612.90; G.N.W. Telegraph Co., $2.46; F. T. Hill, 60c.; Imperial Oil, Ltd., $172.22; W. R. Jaynes, $3.50; King's Printer, $123.23; R. W. Macintyre, $220.10; J. Mayers, $133.25; C. Moulton, $225.09; W. M. McCloy, $5.95; Nickson Construction Co., $7,100.76; Northern Electric Co., $318.37; postage, $8; Railway Signal Engineer, $2; Record Publishing Co., Ltd., $3.40; Royal City Glass Works, 55c.; Spring & Sibley, $45.16; Star Ship Yard Co., $50; Times P. & P. Co., Ltd., $23.20; T. J. Trapp & Co., $54.63; Vancouver Daily Province, $45; Vancouver Engineering Works, Ltd., $1,188.04; Webb & Gifford, $2.61; Westminster Iron Works, $5.81	32,933 59	
	Total expenditure, Fraser River Bridge		52,467 99
	STATUTORY EXPENDITURE.		
	"*Kettle Valley Railway Act, 1914.*"		
	Kettle Valley Railway Co., subsidy, $5,000 per mile for branch line to Copper Mountain Mineral District		68,550 00
	Total expenditure, Department of Railways		$ 144,812 08

CAPITAL ACCOUNT.

(EXPENDITURES OUT OF INCOME.)

No. of Vote.	SERVICE.		Expended.
255.	SINKING FUNDS.		
	B.C. Loan Trustees;		
	"Loan Acts, 1891, 1893, 1895, 1899, and 1902":		
	1 per cent. per annum on Inscribed Stock, £2,045,760 ($9,921,936)	$ 99,219 36	
	Interest on Sinking Fund Investments	58,144 46	
			$157,363 82
	The Minister of Finance:		
	"Loan Act, 1914":		
	Annual payment	$119,050 00	
	Interest on Sinking Fund Investments	46,394 23	
			165,444 23
	"Loan Act, 1915":		
	Annual payment	$238,908 00	
	Interest on Sinking Fund Investments	60,893 01	
			299,801 01
	"Loan Act, 1916":		
	Annual payments	318,005 00	
	Interest on Sinking Fund Investments	42,526 58	
			360,531 58
	"Loan Act, 1917":		
	Annual payment	$ 32,032 00	
	Interest on Sinking Fund Investments	2,265 98	
			34,297 98
	"Loan Act, 1918":		
	Annual payment	$ 86,000 00	
	Interest on Sinking Fund Investments	4,861 08	
			90,861 08
	"Better Housing Act, 1919":		
	Annual payment	$ 22,680 00	
	Interest on Sinking Fund Investments	702 97	
			23,382 97
	Dyking Debentures:		
	Annual payment	$ 7,867 00	
	Interest on Sinking Fund Investments	4,282 56	
			12,149 56
	Total expenditure, Sinking Funds		$1,143,832 23
256.	PACIFIC GREAT EASTERN RAILWAY COMPANY.		
	Interest on Guaranteed Bonds, due 15th July, 1920, and 15th January, 1921: Sundry persons		591,134 82
	STATUTORY.		
	"Pacific Great Eastern Note Guarantee Act, 1919."		
	Canadian Bank of Commerce, interest on guaranteed note, P.G.E. Railway Co.		175,515 55
	SPECIAL WARRANT No. 36.		
	Pacific Great Eastern Railway Company.		
	Advance for construction and operation of its railway and undertaking		750,000 00
257.	BRITISH COLUMBIA HOUSE, LONDON, ENGLAND.		
	Holland, Hannen & Cubitt, instalment on mortgage		9,700 00
	Carried forward		$2,670,182 60

No. of Vote.	SERVICE.		Expended.
	CAPITAL ACCOUNT—*Continued.*		
	(EXPENDITURES OUT OF INCOME)—*Continued.*		
	Brought forward		$2,670,182 60
258.	SONGHEES RESERVE.		
	B.C.E.R. Co., Ltd., $20.28; B.C. Telephone Co., $50.95; Canadian Explosives, Ltd., $1,158.58; Canadian Fairbanks-Morse, Ltd., $50.51; F. A. Devereux, $142.50; Electric Blue Print and Map Co., $7.75; E. & N. Railway Co., $93.56; Esquimalt Water Works Co., $12.05; Evans, Coleman & Evans, Ltd., $300; W. S. Fraser & Co., Ltd., $1,704.72; Hafer Machine Co., Ltd., $103.60; R. Hall & Sons, $17; Island Blue Print & Map Co., $2.20; Kelly, Douglas & Co., Ltd., 31c.; King's Printer, $25.50; Lemon-Gonnason Co., Ltd., $76.61; Mackay & Gillespie, Ltd., $245; Marine Department (Ottawa), $70.45; E. B. Marvin & Co., $56.74; Mellor Bros., Ltd., $15.18; McDonald & Nicol, $56.70; W. McManus, $135; McWilliam & Munro, $158.21; National Drug & Chemical Co. (Canada), $25.35; Producers Rock & Gravel Co., Ltd., $5.30; R. P. Rithet & Co., Ltd., $2.08; Sidney Rubber Roofing Co., Ltd., $206.55; Smith & Champion, $22.50; Whittall Electric Co., $33.51; pay-lists, labour $34,567.61 ..	$ 39,366 30	
	By cash	236 50	
	Total expenditure, Songhees Reserve		39,129 80
259.	JOHNSON STREET BRIDGE, VICTORIA (REVOTED).		
	Nil		.....
260.	ROADS, STREETS, BRIDGES, AND WHARVES.		
	Cariboo District.		
	Deep Gulch Bridge: E. H. Allcock, $2,000; J. G. Hutchcroft, $3.84	$ 2,003 84	
	Fort George District.		
	Beaver Creek Bridge: Canadian National Railways, $128.70; H. R. Egan, $15.90; Goodman Supply Co., $296.37; G.T.P. Railway, $121.49; Heaps Engineering Co., Ltd., $614.67; Leith Bros., $29.81; T. R. Lloyd, $512.65; McBride Trading Co., $47.88; F. G. McDonald, $10; Pacific Cartage, Ltd., $3; G. Romano, $100; Rush Transfer Co., $1.50; G. Swanston, $38.95; pay-lists, labour, $5,154.25	7,075 17	
	Dunster Bridge: A. P. Anderson, $266.79; Austin Co., $709.64; H. Barton, $59.05; Canadian Express Co., 70c.; Canadian National Railways, $478.59; H. E. Carleton, $280.83; City Cartage Co., $13.05; Electric Blue Print & Map Co., $5.85; Gardner & Dupre, $10; Goodman Supply Co., $31.30; G.T.P. Railway Co., $358; W. F. Gregg, $6.75; A. F. Green, $13; G. A. Hall, $1; R. F. Hall, $1; A. E. Hallock, $6.75; Heaps & Sons, Ltd., $5,482.71; J. Johnson, $6.75; L. A. Johnson, $1; Leith Bros., $784.02; D. Long, $6.75; G. A. Long, $27.50; T. R. Lloyd, $10.95; F. R. MacDonald, $52.13; F. G. McDonald, 50c.; A. R. McDonnell, $348.50; P. McMaster, $117.85; Northern Hardware Co., $25.39; Prince George Drug Co., $3.32; Ross & Howard Iron Works, Ltd., $7,347.96; Rush Transfer Co., $2.50; A. Stillie, $6.75; Webster, Black & Co., $1,839.88; Wilson & Blackwood, $1,040.20; pay-lists, labour, $10,490.89	29,837 85	
	Sturgeon Point Bridge: Dezell & Fowler, $2,464.46; W. H. Farris, $120; G.T.P. Railway, $33.21; J. W. Hamilton, $10; D. Hoy, $963.72; Hudson's Bay Co., $89.50; J. M. Johnston, $120.10; J. R. Knight, $10; Leith Bros., $201.30; R. C. McCorkell, $49.86; Northern Hardware Co., $49.40; E. B. Smith, $11.50; A. Stewart, $43.65; pay-lists, labour, $4,529.23	8,695 93	
	Carried forward	$ 47,612 79	$2,709,312 40

No. of Vote.	SERVICE.		Expended.
	CAPITAL ACCOUNT—*Continued.*		
	(EXPENDITURES OUT OF INCOME)—*Continued.*		
260.	ROADS, STREETS, BRIDGES, AND WHARVES—*Continued.*		
	Brought forward	$ 47,612 79	$2,709,312 40
	Kamloops District.		
	Pritchard Bridge: W. Greenlees	729 35	
	Omineca District.		
	Haguelgate Bridge: New Hazelton Bridge & Power Co.	12,000 00	
	Total expenditure, Roads, Streets, Bridges, and Wharves		60,342 14
261.	INDUSTRIAL SCHOOL AND BOYS' SUBNORMAL SCHOOL BUILDINGS.		
	Albion Motor Express, $5.25; Anderson & Lusby, $1,049.57; Beaver-Interurban Auto Transfer, $150; Belyea & Co., $179.35; Blue Funnel Motor Line, 25c.; Brackman-Ker Milling Co., $3,285.95; B.C.E.R. Co., Ltd., $740.63; Brunette Saw Mill Co., Ltd., $1,087; Burr Office Supplies, $2; H. E. Bush, $40; D. Cameron, $125; Canadian Fairbanks-Morse Co., Ltd., $1.58; Canada General Electric Co., Ltd., $246.40; C.P.R. Co., $7.67; Canadian Photo Co., $108.70; Canadian Western Lumber Co., $322.23; Chapman's Motor Cartage, $5; Columbian Co., Ltd., $46.20; Cope & Son, Ltd., $2,874.67; Crane, Ltd., $20.89; G. Cunningham, $113.40; Cunningham Hardware Co., $20; H. Darling & Son, $5.10; S. J. Davison, $45.90; Dominion Express Co., 75c.; J. Ellis, $1; Evans, Coleman & Evans, Ltd., $656.88; Farr, Robinson & Bird, $689; Fraser Transfer Co., $10; Gilley Bros., Ltd., $2,183.40; Gutta Percha & Rubber, Ltd., $181.68; Harrison & Co., $18; Hume & Rumble, $26.40; Hyslop Hardware Co., $59.16; Imperial Welding Co., $34; T. H. Isaacson, 25c.; James & McClughan, Ltd., $124.20; H. T. Kirk, $2; Kloepfer Hardware Co., Ltd., $9.34; H. Londale, $2.05; G. S. Macgowan, $4.10; J. L. Malcolm, $2.65; S. B. Martin, $2.45; Massey-Harris Co., $9.90; W. J. Moore, $30.90; C. Moulton, $186.43; National Machinery Co., $31.31; New Westminster Corporation, $9.59; Northern Electric Co., Ltd., $2; W. N. O'Neil Co., Ltd., $83; Pacific Construction Co., Ltd., $20.52; Port Coquitlam Transfer Co., $12; J. Pringle, $1.25; Robertson-Godson Co., $3,894.47; Robertson & Partners, Ltd., $213,885; Sabulite Explosives, Ltd., $127.78; J. F. Smith Co., Ltd., $147.70; C. C. Snowdon, $120.16; Spring & Sibley, $111.84; Storey & Campbell, $281.45; Taylor-Forbes Co., Ltd., $15,878.08; T. J. Trapp & Co., Ltd., $1,135.83; Vancouver City, $2,131.77; Vancouver Milling & Grain Co., Ltd., $120.27; Webb & Gifford, $254.28; Westminster Iron Works, $164.50; pay-lists, labour, $12,758.12	$265,888 20	
	Total expenditure, Industrial School and Boys' Subnormal School Buildings		265,888 20
262.	GOVERNMENT BUILDINGS, PRINCE RUPERT.		
	Salaries:		
	Draughtsmen:		
	L. W. Hargreaves ....$870 96 E. Totty ..... $ 1,080 00	$ 1,950 96	
	Miscellaneous:		
	Colonist P. & P. Co., Ltd., $46.20; King's Printer, $20; Lands Department, $40; News P. & P. Co., $81; L. Sayce, $4.80; Times P. & P. Co., Ltd., $65; Vancouver Province, $112.65; Vancouver Sun, $126.45	496 10	
	Total expenditure, Government Buildings, Prince Rupert		2,447 06
	Carried forward		$3,037,989 80

No. of Vote.	SERVICE.		Expended.
	CAPITAL ACCOUNT—*Continued.*		
	(EXPENDITURES OUT OF INCOME)—*Continued.*		
	Brought forward		$3,037,989 80
263.	POLICE STATION AND QUARTERS, BRIDGE CROSSING.		
	T. Scallon		1,662 85
264.	POLICE STATION AND QUARTERS, KELOWNA.		
	A. C. Bennett		154 65
265.	POLICE STATION AND QUARTERS, CLINTON.		
	Ashcroft Journal, $7; King's Printer, $10; Record Publishing Co., $10; Vancouver Province, $35.25	$ 62 25	
	Total expenditure, Police Station and Quarters, Clinton		62 25
266.	POLICE STATIONS AND QUARTERS AT OTHER POINTS.		
	Bella Coola:		
	Pay-list	$ 464 00	
	Burns Lake:		
	G. MacKenzie	850 00	
	Courtenay:		
	W. J. Hagarty, $1,105; J. W. Ledgerwood, $17	1,122 00	
	Masset:		
	Albert & McCaffery, $42.35; C. Harrison, $100.63; W. Hudson, $40.40; J. Martin, $142.18; Steen & Longwill, $118.73; pay-lists, labour, $366	810 29	
	Pouce Coupe:		
	C. F. LeRoy	100 00	
	Yahk:		
	Jones & Doris	150 00	
	Total expenditure, Police Stations and Quarters at other Points		3,496 29
267.	MENTAL HOSPITALS, ESSONDALE, NEW WESTMINSTER, AND COLONY FARM.		
	Essondale.		
	Attendants' Cottages:		
	Albion Motor Express, 75c.; Anderson & Lusby, $534.52; B.C.E.R. Co., Ltd., 50c.; Brookes Woodworking Co., Ltd., $1,128.80; Brunette Saw Mill Co., Ltd., $410.92; Canadian Western Lumber Co., Ltd., $2,283.19; Canadian Westinghouse Co., Ltd., $126.71; Chapman's Motor Cartage, $5; Crane, Ltd., $877.98; Cunningham Hardware Co., $120.59; Gilley Bros., Ltd., $36.50; Hyslop Hardware Co., $314.41; Merchants, Ltd., $39.05; C. Moulton, $119.02; W. N. O'Neil Co., Ltd., $136.35; Port Coquitlam Transfer Co., $53.75; Reliable Furniture Co., $200.25; Robertson-Godson Co., Ltd., $15.87; Spring & Sibley, $146.45; Taylor-Forbes Co., Ltd., $48.16: T. J. Trapp & Co., Ltd., $87.76; pay-list, labour, $6,992.25	$ 13,678 78	
	Grading:		
	Anderson & Lusby, $71.49; B. & K. Milling Co., Ltd., $197.85; B.C.E.R. Co., 50c.; Burr Office Supplies, $6; S. J. Davison, $19.25; Galbraith & Sons (Assignee), $36.36; F. Goertz, $200; Gutta Percha & Rubber, Ltd., $132.52; Hyslop Hardware Co., $9.80; J. F. Smith Co., Ltd., $211.72; Storey & Campbell, $17.50; T. J. Trapp & Co., Ltd., $626.95; Vancouver Milling & Grain Co., Ltd., $33	1,562 94	
	Carried forward	$ 15,241 72	$3,043,365 84

No. of Vote.	SERVICE.		Expended.
	CAPITAL ACCOUNT—*Continued.*		
	(EXPENDITURES OUT OF INCOME)—*Continued.*		
267.	MENTAL HOSPITALS, ESSONDALE, NEW WESTMINSTER, AND COLONY FARM—*Continued.*		
	Essondale—Continued.		
	Brought forward	$ 15,241 72	$3,043,365 84
	Piggery:		
	L. W. Hargreaves, $135; Robertson-Godson Co., Ltd., $216.90	351 90	
	Roads and Fences:		
	Albion Motor Express, $1; Anderson & Lusby, $40.07; Brunette Sawmills, Ltd., $44.63; Canadian Western Lumber Co., Ltd., $32.40; Gilley Bros., Ltd., $370; Heaps Engineering Co., Ltd., $174; Hyslop Hardware Co., $48.60; N. Thompson & Co., Ltd., $129.89; Westminster Iron Works, $40.60; pay-list, labour, $108.50	989 69	
	Shops Building:		
	Brookes Woodworking Co., Ltd., $16.60; Galbraith & Sons (Assignee), $396.30; C. Moulton, $41.20; T. J. Trapp & Co., Ltd., $11.36	465 46	
	Annex Addition:		
	Anderson & Lusby, $516.47; Belyea & Co., $34.80; B.C.E.R. Co., Ltd., $2.72; J. Brookes Woodworking Co., Ltd., $587; Brunette Saw Mills, Ltd., $58.46; Canadian Western Lumber Co., Ltd., $2,813.66; Chapman's Motor Cartage, $3.25; Crane, Ltd., $110.61; Gilley Bros., Ltd., $456.25; C. Moulton, $321.07; J. P. McMurphy, $139.88; W. N. O'Neil Co., Ltd., $44.65; Port Coquitlam Transfer Co., $216; Reliable Furniture Co., $130; Robertson-Godson Co., Ltd., $1,278.36; Taylor-Forbes Co., Ltd., $2,120.47; T. J. Trapp & Co., Ltd., $1,391.48; pay-lists, labour, $2,461.25	12,686 38	
	Total expenditure, Mental Hospital, Essondale		$ 29,735 15
	New Westminster.		
	Fencing:		
	Anderson & Lusby, $12.77; Brunette Saw Mills, Ltd., $204.22; Cunningham Hardware Co., $393.90; Westminster Iron Works. $9.25	$ 620 14	
	Industrial Building:		
	Brunette Saw Mills, Ltd.	3,067 90	
	Nurses' Home:		
	Albion Motor Express, $3.40; Anderson & Lusby, $1,132.45; Annandale Supply Co., 15c.; Belyea & Co., Ltd., $355.75; Blue Funnel Motor Co., 50c.; British America Paint Co., Ltd., $262.74; B.C.E.R. Co., Ltd., 50c.; J. Brookes Woodworking Co., Ltd., $3,951.78: Brunette Saw Mill Co., Ltd., $6,149.85; Canadian General Electric Co., Ltd., $185.72; Canadian Western Lumber Co., Ltd., $45; Chapman's Motor Cartage. $9.75; City of New Westminster, $70.60; Cope & Son, Ltd., $433.79; Crescent Paint & Manufacturing Co., $115.64; Cunningham Hardware Co., $10; Evans, Coleman & Evans, Ltd., $42.01; E. Fitzgerald, $3.05; Fleck Bros., Ltd., $59.17; Gilley Bros., $3,245.41; R. T. Hall, 55c.; G. H. Hewitt Co., Ltd., $27.71; Hunter-Henderson Paint Co., Ltd., $46.62; H. T. Kirk, $28.85; Lands Department Survey Branch, $11.70; J. Leckie Co., Ltd., $153.36; H. Lonsdale,		
	Carried forward	$ 3,688 04	$ 29,735 15 $3,043,365 84

No. of Vote.	SERVICE.			Expended.
	CAPITAL ACCOUNT—*Continued.*			
	(EXPENDITURES OUT OF INCOME)—*Continued.*			
267.	MENTAL HOSPITALS, ESSONDALE, NEW WESTMINSTER, AND COLONY FARM—*Continued.*			
	New Westminster—Continued.			
	Brought forward	$ 3,688 04	$ 29,735 15	$3,043,365 84
	Nurses' Home—*Continued.* $6.65; S. B. Martin, $1; C. Morrison, $1; T. Mowbray, $31.05; C. Moulton, $163.71; E. McIntyre, 35c.; McLennan, McFeely & Co., Ltd., $138; McVicar Shingle Co., $431.77; W. H. Oliver, $1.05; W. N. O'Neil Co., Ltd., $100.10; Port Coquitlam Transfer Co., $13; Rankin & Cherrill, $272.15; Reliable Furniture Co., $259; J. Robertson, $312; Robertson-Godson Co., Ltd., $2,862.15; Simmons, Ltd., $256.10; J. Fyfe Smith Co., Ltd., $698.64; Spring & Sibley, $630.34; F. Stewart, $200; Storey & Campbell, Ltd., $2.50; A. Tanner, $26.60; Taylor-Forbes Co., Ltd., $3,768.75; T. J. Trapp & Co., Ltd., $839.43; Webb & Gifford, $9.35; Westminster Iron Works, $15.50; pay-lists, labour, $10,522.18	37,908 42		
	Total expenditure, Mental Hospital, New Westminster		41,596 46	
	Colony Farm and Nursery.			
	Clearing: Anderson & Lusby, $554.40; B. & K. Milling Co., Ltd., $25; B.C.E.R. Co., 50c.; Brunette Saw Mill Co., Ltd., $401.56; Canadian Western Lumber Co., Ltd., $15.07; Cunningham Hardware Co., $825.23; Johnson & Hildie, $264.67; Robertson-Godson Co., Ltd., $5.06; Thurston-Flavelle, Ltd., $58.80; T. J. Trapp & Co., Ltd., $4; Webb & Gifford, $8.26; Westminster Iron Works, $589; pay-list, labour, $2,280	$ 5,031 55		
	Dyke Pump: R. Hoffmeister	107 00		
	Herdsman's Cottage: Gilley Bros., Ltd.	65 15		
	Purchase of Stock and Implements: B.C. Branch of Holstein-Friesian Association, $1,675; Dairy Machinery Co., Ltd., $380; J. Hanbury & Co., Ltd., $350; J. Knowles, $425; Medd Bros., $4,000; D. Montgomery & Sons, $1,000; D. E. McKay, $375; T. J. Trapp & Co., $336.50; R. P. Vigors, $150	8,691 50		
	Total expenditure, Colony Farm and Nursery		13,895 20	
	Total expenditure, Mental Hospitals			85,226 81
268.	GOVERNMENT BUILDINGS, POUCE COUPE.			
	H. G. Atkinson, $300; R. Baxter, $2; W. S. Bullen, $1.35; C. Deschene, $1,580.90; O. E. Fredreckson, $16.50; J. Fynn, $6.50; A. R. Hamilton, $19.60; H. Haskins, $9.75; E. Laloge, $30; C. le Roy, $3; P. Ollinger, $27.45; J. Pellerin, $24.70; Pouce Coupe Trading Co., $22.35; Thompson Hardware Co., $23.30; J. H. White, $2		$ 2,069 40	
	Total expenditure, Government Buildings, Pouce Coupe			2,069 40
269.	GOVERNMENT BUILDINGS, WILLIAMS LAKE.			
	Nil			.....
270.	PURCHASE OF BUILDING, BARKERVILLE.			
	Nil			.....
	Carried forward			$3,130,662 05

No. of Vote.	SERVICE.		Expended.
	CAPITAL ACCOUNT—*Continued.*		
	(EXPENDITURES OUT OF INCOME)—*Continued.*		
	Brought forward		$3,130,662 05
271.	TECHNICAL SCHOOL (PROVISIONAL).		
	Barrett & Co., Ltd., $131.57; J. Bell, $65.78; B.C.E.R. Co., Ltd., $33.12; Campbell & Grill, $104.60; Carnahan Bros., $24.50; T. Carson, $12,094.55; F. L. Cummings & Co., $921; Empire Transfer Co., $7.50; Imperial Oil, Ltd., $378.23; King's Printer, $10; A. H. Mitchell & Co., $80.20; W. T. McArthur & Co., Ltd., $12.60; T. G. McBride & Co., $57; Otis-Fensom Elevator Co., $8.74; Public Works Dept., $58.50; Royal Crown Soaps, Ltd., $10; Simson, Balkwill & Co., Ltd., $24.15; Smith, Davidson & Wright, $20; T. Steine, $1,476.44; Thomson Coal Co., $344.75; Vancouver Labour Temple Co. (Liquidator), $165.000; Vancouver Sun, $25.20; Vancouver City Waterworks, $15.90; pay-list, labour, $148	$181,052 33	
	Total expenditure, Technical School		181,052 33
272.	FORESTRY OFFICES AND RANGERS' STATIONS.		
	Squamish:		
	Gibson, Merrick & Lindsay, Ltd., $2.400; King's Printer, $10; P.G.E.R. Co., $300; Times Printing & Publishing Co., $7.20; Vancouver Province, $25.20	$ 2,742 40	
	Williams Lake:		
	M. M. Anderson, $85.69; Borland Store, $7.50; J. D. Boyd, $22.25; L. J. Crosina, $57.15; N. S. Dalgleish, $83.40; M. Dumond, $128.80; R. Fraser, $27.35; Fraser & McKenzie, $102.55; C. Hensman, $122.01; Heyworth Bros., $47.28; T. Mackay, $17.85; Northern Construction Co., $12.54; T. Wycotte, $10.50	724 87	
	Total expenditure, Forestry Offices and Rangers' Stations		3,467 27
273.	WARDEN'S RESIDENCE, OAKALLA PRISON FARM.		
	Alcock, Downing & Wright, Ltd., $61.73; H. Baillie & Co., 50c.; British America Paint Co., Ltd., $4.59; B.C.E.R. Co., Ltd., $5; Brookes Woodworking Co., $1,132.65; Brunette Saw Mills, Ltd., $51; Canadian Northwest Steel Co., Ltd., $52; Cope & Son, Ltd., $156.87; Corporation of Burnaby, $3.50; Evans, Coleman & Evans, Ltd., $1,680; Gilley Bros., Ltd., $449.12; C. Goldberg, $30; W. T. McArthur & Co., Ltd., $9.38; T. H. McBride & Co., $4.25; McClary Manufacturing Co., $20.08; McLennan, McFeely & Co., Ltd., $39.46; W. N. O'Neil Co., Ltd., $70.50; Robertson-Godson Co., Ltd., $191.61; Rush & Read, $207.90; Sherwin-Williams Paint Co., Ltd., $176.48; Taylor-Forbes Co., Ltd., $1,185.78; Vancouver Lumber Co., Ltd., $15.54; Wood, Vallance & Leggat, Ltd., $161.47	$ 5,709 41	
	Total expenditure, Warden's Residence, Oakalla Prison Farm		5,709 41
274.	MAIN HIGHWAYS, INDUSTRIAL AND SETTLEMENT ROADS.		
	Alberni District.		
	Canadian Highway:		
	Pay-lists, labour and team-work	$ 1,735 78	
	Island Highway:		
	E. & N. Railway Co., $2.99; Evans, Coleman & Evans, Ltd., $11.67; pay-lists, labour and team-work, $2,518.14		
		$ 2,532 80	
	By cash	31 00	
		2,501 80	
		$ 4,237 58	
	Carried forward	$ 4,237 58	$3,320,891 06

No. of Vote.	SERVICE.			Expended.	
	CAPITAL ACCOUNT—*Continued.*				
	(EXPENDITURES OUT OF INCOME)—*Continued.*				
274.	MAIN HIGHWAYS, INDUSTRIAL AND SETTLEMENT ROADS—*Continued.*				
	Brought forward		$	4,237 58	$3,320,891 06
	Columbia District.				
	Main Trunk, East Side:				
	Pay-lists, labour and team-work			2,116 18	
	Comox District.				
	Hardy Bay–Coal Harbour:				
	J. R. Burnes, 75c.; R. A. Burniston, $29.60; P. Burns & Co., Ltd., $472.84; C.P.R. Co., $19.85; A. Cassiday, $25.80; L. S. Cokely, $1.50; Comox Argus, $18.76; Dominion Express Co., 30c.; Dominion Government Telegraphs, $1; Dominion of Canada Guarantee & Accident Insurance Co., $2.50; Electric Blue Print & Map Co., $9.85; W. Flesching, $4.50; Gibson's, Ltd., $121; T. Harris, $33.43; Heaps & Sons, Ltd., $386.49; A. E. Hole, $33; Imperial Oil, Ltd., $28.73; F. Jeune & Bro., Ltd., $33.10; W. Kask, $3.50; King's Printer, $163.04; A. M. Lyon, $54.35; McClary Manufacturing Co., $222.26; McLennan, McFeely & Co., Ltd., $237.13; National Drug & Chemical Co., $15; Parsons & Elkins, $98.70; H. A. Phillips, $120.46; postage, $3; E. G. Prior & Co., Ltd., $16.10; C. Robinson, $15; Simmons, Ltd., $230; F. Smith, $8.70; D. M. Stauffer, $40; M. M. Stephens, $228.85; F. R. Stewart & Co., Ltd., $144.35; E. Swan, $24; Times P. & P. Co., Ltd., $35.40; Union Steamship Co. of B.C., Ltd., $585.80; J. G. Valiant, $23.90; Vancouver Daily Province, $57.15; pay-lists, labour and team-work, $7,422.57	$ 10,972 26			
	Merville Land Settlement:				
	W. L. Hodgkin, $5.20; A. Hogg, $17; Jones & Rant, Ltd., $52.70; Merville Garage, $52; R. J. Surgenor, $13; pay-lists, labour and team-work, $4,958.37	5,098 27			
	Salmon River, West Side:				
	Pay-list, labour and team-work	374 21			
				16,444 74	
	Delta District.				
	Ladner Trunk:				
	Palmer Bros.	$ 9,671 76			
	Provincial Highway:				
	B.C. Cement Co., Ltd., $9,996.24; M. P. Cotton & Co., Ltd., $23,479.74; H. P. Peterson Construction Co., Ltd., $2,000	35,475 98			
				45,147 74	
	Esquimalt District.				
	Colwood Road:				
	Imperial Oil, Ltd., $17.25; Producers Rock & Gravel Co., Ltd., $135.75; Corporation of the District of Saanich, $236.71; W. P. Scafe, $8; Sidney Rubber Roofing Co., Ltd., $629.96; H. W. Simpson, $24.30; Victoria Motor Transport, $77.35; pay-lists, labour and team-work, $685.37	$ 1,814 69			
	Island Highway:				
	Canadian Explosives, Ltd., $1.42; Canadian Fairbanks-Morse Co., Ltd., $1.21; W. S. Fraser & Co., Ltd., $4.25; Imperial Oil, Ltd., $797.82; King's Printer, $6.50; Lemon-Gonnason Co., Ltd., $18.18;				
	Carried forward	$ 1,814 69	$	67,946 24	$3,320,891 06

No. of Vote.	SERVICE.			Expended.
	CAPITAL ACCOUNT—*Continued.*			
	(EXPENDITURES OUT OF INCOME)—*Continued.*			
274.	MAIN HIGHWAYS, INDUSTRIAL AND SETTLEMENT ROADS—*Continued.*			
	Esquimalt District—Continued.			
	Brought forward	$ 1,814 69	$ 67,946 24	$3,320,891 06
	Island Highway—*Continued.*			
	E. B. Marvin & Co., $5.55; E. W. Pooley, $100; Times P. & P. Co., Ltd., $16.80; pay-lists, labour and team-work, $6,918.21	7,869 94		
			9,684 63	
	Fort George District.			
	Ashcroft–Summit Lake:			
	A. P. Anderson, $120.02; Austin Co., $99.50; W. Blair, $5.50; Caine & Brawn, $5,619.62; Carleton & Fetter, $80.51; City Cartage & Transfer Co., $25; G.T.P. Railway Co., $127.65; A. Johnson, $3; J. Johnson, $12.65; F. J. Johnston, $32.50; Leith Bros., $39.48; G. Little Lumber Yards, $500.68; J. W. Miers, $24.10; J. McGaghran, $40; Northern Hardware Co., $43.07; F. B. Palmgren & Son, 90c.; J. Porter, $736.75; Rush Transfer & Storage Co., $1.50; United Grain-growers' Sawmills, Ltd., $478.50; Webster & Black, $210.25; G. B. Williams, $1; transfers from Vote 251, Roads, $2,457; pay-lists, labour and team-work, $7,967.37	$ 18,626 55		
	Blackwater–Stony Creek:			
	Leith Bros., $9.50; G. Little Lumber Yards, $42; T. Mitchell, $2.25; E. C. McGeachy, $1.20; P. Rasmussen, $10; transfers from Vote 251, Roads, $265; pay-lists, labour and team-work, $1,196.25	1,526 20		
	Fort George–Hazelton:			
	A. P. Anderson, $37.35; W. Bunting, $55.55; Canadian Express Co., 55c.; City Cartage & Transfer Co., $1; G.T.P. Railway, $5.99; Imperial Oil, Ltd., $140.13; J. Johnson, $1.60; Leith Bros., $17.13; G. Little Lumber Yards, $469.31; J. W. Miers, $6; R. C. McCorkell, $6.15; S. McLean, $183.15; Nechako Machine Shop, $11.25; Northern Hardware Co., $58.93; F. B. Palmgren & Son, $19.90; A. Racine, $3.25; E. B. Smith, $7.60; C. L. Stuart, $16; H. Taylor, $1.86; G. B. Williams, $3.15; H. Willson, $2; transfers from Vote 251, Roads, $2,499; pay-lists, labour and team-work, $10,800.03	14,346 88		
	Fort George–Quesnel:			
	G.T.P. Railway, $47.25; B.C. Express Co., $103.34; pay-lists, labour and team-work, $837.64	988 23		
	Fort George–Stony Creek:			
	G.T.P. Railway, $4.11; pay-lists, labour and team-work, $349.25	353 36		
	Fort George–Summit Lake:			
	Leith Bros., $1.61; pay-lists, labour and team-work, $665.87	667 48		
			36,508 70	
	Islands District.			
	Divide and Fulford:			
	Islands Agricultural and Fruit-growers' Association, $17.15; W. A. McAfee, $3.75; pay-lists, labour and team-work, $1,402.29	$ 1,423 19		
	East Saanich:			
	Canadian Fairbanks-Morse Co., Ltd., $9.60; D. Craig, $18.50; J. Critchley, $13; W. S. Fraser &			
	Carried forward	$ 1,423 19	$114,139 57	$3,320,891 06

No. of Vote.	SERVICE.			Expended.
	CAPITAL ACCOUNT—*Continued.*			
	(EXPENDITURES OUT OF INCOME)—*Continued.*			
274.	MAIN HIGHWAYS, INDUSTRIAL AND SETTLEMENT ROADS—*Continued.*			
	Islands District—Continued.			
	Brought forward	$ 1,423 19	$114,139 57	$3,320,891 06
	East Saanich—*Continued.* Co., Ltd., $122.86; Hafer Machine Co., Ltd., $124.43; Imperial Oil, Ltd., $22.29; E. B. Marvin & Co., $3.79; Corporation of the District of Saanich, $104.78; Sidney Mills, Ltd., $2.50; Sidney Rubber Roofing Co., Ltd., $2,295.65; Sidney Trading Co., Ltd., $169.20; pay-lists, labour and team-work, $3,080.71	5,967 31		
	Hill and Branford: R. P. Edwards, $10; Islands Agricultural and Fruitgrowers' Association, $186.60; Mouat Bros. & Co., Ltd., $32.90; W. A. McAfee, $7.85; pay-lists, labour and team-work, $2,844.47	3,081 82		
			10,472 32	
	Kaslo District.			
	Creston–Goatfell: Belyea & Co., Ltd., $15; B.C. Equipment Co., Ltd., $17.57; Brown, Fraser & Co., Ltd., $70.70; Canadian Bank of Commerce, $2.50; C.P.R. Co., $14.50; Canyon City Lumber Co., Ltd., $44.53; Creston Auto & Supply Co., $39.35; A. Davies, $55.81; G. A. Earl, $52; Embree's Garage, $51.55; J. H. Fulmer, $103.50; Hardware & Furniture Supply Co., $215.20; Imperial Oil, Ltd., $501.88; W. G. Littlejohn, $35; E. Mallandaine, $57.20; J. T. Mangan & Co., $31.99; H. S. McCreath, $223.92; Neil & Cryderman, $25; Nelson Iron Works, Ltd., $115.78; Wood-Vallance Hardware Co., Ltd., $8.01; pay-lists, labour and team-work, $5,916.11	$ 7,597 10		
	Creston–Kuskanook: F. E. Archer Hardware Co., $76.75; Byers, Giegerich, Green Co., $79.66; Canadian Explosives, Ltd., $737.48; C.P.R. Co., $51.60; Creston Mercantile Co., $3.60; Creston Power, Light & Telephone Co., $11.15; Giant Powder Co., Ltd., $84.21; Hardware & Furniture Supply Co., $8.90; Kaslo Transfer Co., $17.80; J. D. Moore, $2.85; Nelson Hardware Co., $194.04; Nelson Transfer Co., $4; B. T. O'Grady, $7.80; S. Pascuzzo, $12; T. Rogers, $40.90; S. A. Speers, $5.50; J. B. Winlaw, $43.45; pay-lists, labour and team-work, $5,582.25	6,963 94		
	Sirdar–Kuskanook: King's Printer, $9; B. T. O'Grady, $20.60; News Publishing Co., Ltd., $11.80; Record Publishing Co., $12.30; Vancouver Daily Province, $30.60; F. B. Whiteside, $119; pay-lists, labour, $369.34	572 64		
			15,133 68	
	Nanaimo District.			
	Island Highway: C. H. Armour, 75c.; L. Ashby, $32.30; E. & N. Railway Co., $6.28; Gregson Bros., $6; D. W. Johnston, $198.50; W. H. Morten, 50c.; Nanaimo Free Press, $14.92; Nanaimo Lumber Co., Ltd., $66.60; E. R. Taylor, $138.75; P. White, $3.30; pay-lists, labour and team-work, $3,721.68		4,189 58	
	Omineca District.			
	Endako–Francois Lake: Pay-list, labour and team-work	$ 1,692 25		
	Carried forward	$ 1,692 25	$143,935 15	$3,320,891 06

No. of Vote.	SERVICE.			Expended.
	CAPITAL ACCOUNT—*Continued.*			
	(EXPENDITURES OUT OF INCOME)—*Continued.*			
274.	MAIN HIGHWAYS, INDUSTRIAL AND SETTLEMENT ROADS—*Continued.*			
	Omineca District—Continued.			
	Brought forward	$ 1,692 25	$143,935 15	$3,320,891 06
	McDonald Settlement:			
	Pay-list, labour and team-work	406 25		
	White Settlement:			
	Pay-list, labour and team-work	250 00		
			2,348 50	
	Revelstoke District.			
	Revelstoke, West:			
	O. W. Abrahamson, $34.20; B.C. Record, $8; City Transfer Co., $4.05; Columbia Hardware Co., $18; Electric Blue Print & Map Co., $9.95; Howson's Furniture Store, $6; T. P. Johnston, $28.85; King's Printer, $5; C. R. Macdonald, $151.12; J. B. MacKenzie, $4.10; B. McCallum, $34; A. McDonnell, $94,376.19; B. T. O'Grady, $2.95; Revelstoke Review Publishing Co., $13.85; R. H. Sawyer, $11.72; H. G. Starr, $61.72; Vancouver Daily Sun, $35.25; pay-list, labour, $909.65		95,714 60	
	Richmond District.			
	Lulu Island Highway:			
	B.C. Cement Co., Ltd.		3,862 06	
	Rossland District.			
	Rossland–Christina Lake:			
	R. Barrie, $4.45; A. W. Davis, $1.088; Electric Blue Print & Map Co., 85c.; Henderson's Livery, $29; Hunter Bros., Ltd., $2.50; F. Jeune & Bro., Ltd., $153.57; J. M. Jordan, $20; King's Printer, $10; W. S. Murphy, $2.20; News Publishing Co., Ltd., $12.32; Record Publishing Co., $12.60; Rossland Saturday Night Miner, $11.40; H. W. Stevens, $295.78; Vancouver Daily Province, $31.50; W. H. Wainman, $2.75; pay-list, labour, $721.04		2,397 96	
	Saanich District.			
	West Saanich:			
	Corporation of the District of Saanich		5,199 48	
	Similkameen District.			
	Osoyoos–9-Mile Creek:			
	A. W. Davis		23,811 16	
	Slocan District.			
	New Denver–Three Forks:			
	P. Angrignon, $50; C.P.R. Co., $107; Dominion Express Co., 55c.; Giant Powder Co. of Canada, Ltd., $157.73; G. T. Store, $445.09; T. H. Hoben, $67.40; Nakusp Lumber Co., $68; Sabulite Explosives Co., $61.97; J. B. Smith, $4.50; pay-lists, labour, $8,574.35			
		$9,536 59		
	By cash	51 81		
			9,484 78	
	Trail District.			
	Thrums–Brilliant:			
	P. Abrossinoff, $33.85; B.C. Telephone Co., $41.05; P. Burns & Co., Ltd., $992.08; Canadian Explosives, Ltd., $116.26; Canadian Oil Co., Ltd., $81.41; City Drug & Stationery Co., $2.30; P. Drozda, $103.15; Edgewood Lumber Co., $8.77; W. J. Farmer, $43.80; Giant Powder Co., Ltd., $17.21; S. Gretchen, $13.50; Imperial Oil, Ltd., $55.80; Kootenay-Columbia Preserving Works, $22; N. Kozokoff, $2; Nelson Hardware Co., $24.44; Nelson Jobbers, Ltd., $696.37; S. A. Oosckoff, $15.24; P. J. Rahal, $7.75; A. Salikin, $77.34; J. Veregin, $14; P. Veregin, $60.25; West Kootenay Power & Light Co., $82.25; West Transfer Co., $2.02;			
	Carried forward		$286,753 69	$3,320,891 06

No. of Vote.	SERVICE.		Expended.
	CAPITAL ACCOUNT—*Continued.*		
	(EXPENDITURES OUT OF INCOME)—*Continued.*		
274.	MAIN HIGHWAYS, INDUSTRIAL AND SETTLEMENT ROADS—*Continued.*		
	Trail District—Continued.		
	Brought forward	$286,753 69	$3,320,891 06
	Thrums–Brilliant—*Continued.*		
	W. T. Wickham, 90c.; Wood-Vallance Hardware Co., Ltd., $47.27; pay-lists, labour and team-work, $8,542.77	11,103 78	
	Total expenditure, Main Highways, Industrial and Settlement Roads		297,857 47
	STATUTORY.		
	"Soldiers' Land Act, 1918," Sec. 4.		
	Southern Okanagan Project.		
	Salaries:		
	Project Engineer ..... F. H. Latimer	$ 1,800 00	
	Assistant Project Engineer ..... W. S. Earle	1,500 00	
	Pay-lists	20,572 30	
		$ 23,872 30	
	Travelling Expenses:		
	F. H. Latimer	190 90	
	Miscellaneous:		
	C. G. Baker, $30.57; Basham-Finch Grocery, $116.75; J. H. Boydell, $3.50; B.C. Cement Co., Ltd., $36,507.16; P. Burns & Co., Ltd., $32.25; C. E. Burtch, $597.53; C. A. Butler, $7.50; Canadian Pipe Co., Ltd., $3,069.54; Central Garage, $13.25; C. F. Chaffey, $82.83; Chittenden & McKeen, $72.15; Clarke & Stuart Co., Ltd., $158.12; Community Lumber Co., Ltd., $6.20; J. L. Crismon, $542.55; District Registrar, Kamloops, $1; Dominion Bridge Co., Ltd., $6,602.35; Dominion Express Co., $11.92; Dominion Government Telegraphs, $162.31; Echo Bay Ranch, $69.25; Ede & Westgate, $148; H. N. Fraser, $4.45; George and Margaret (Indians), $24; Grand Forks Garage, $7; C. de B. Green, $75; A. F. Greenhow, $3.50; C. Greer, $114.76; Greer & Butler, $1,200.08; A. E. Griffin, $538,294.70; A. F. Hamilton, $3.50; G. Harris, $15.15; R. Hardesty Manufacturing Co., $12,529.85; Harrison & Taylor, $478.95; Houghton & Evans, $4.55; R. W. Hunt & Co., $82.50; Imperial Oil, Ltd., $1,064.48; A. J. Ingraham, $21.50; A. E. Kay, $14.40; D. Keith, $3,079.96; Kettle Valley Railway Co., $497.44; Keuffel & Esser Co., $78.32; W. R. King & Co., $1.25; T. J. Kruger, $26.50; F. H. Latimer (sundry accounts), $110.37; Letson & Burpee, $2,173; licences, $92.40; Macey-Abell Co., Ltd., $39; H. W. Main, $21.40; W. H. Malkin & Co., Ltd., $3,302.62; A. Manuel, $41; Martin Iron Works, $125.48; Modern Vulcanizing & Retreading Plant, $10.25; H. B. Morley & Co., $283.49; Mussen's, Ltd., $75; MacInnes Garage, $2.75; J. P. McCuddy, $2.40; K. McKenzie Lumber Co., $96.58; McLennan, McFeely & Co., Ltd., $18.44; Occidental Fruit Co., $34; Okanagan Garage, $154.25; Osoyoos Nurseries, $102; Pacific Coast Pipe Co., $3,699.49; A. E. Patton, $805.55; Penticton Battery Service Station, $24; Penticton Department Stores, $138.40; Penticton Garage, $136.25; Penticton Hardware Co., $299.01; Penticton Herald, $185.37; Penticton Tire Hospital, $637.65; Ramsay's Machine Works, $560.19; Ross & Howard Iron Works, Ltd., $139.77; W. E. Saunders & Co., $1.11; Sharp's Garage, $2.20; D. F. Simpson, $154.16; Simson, Balkwill & Co., Ltd., $48.87; South Okanagan Supply Co., Ltd., $96.75; South Okanagan Transportation Co., $112.30; Syer & Smith, $1,086.46; G. W. Taylor, $50.82; Triangle Motor Service, $18.45; J. C. Ulmer Co., $25.76; W. G. Wilkins, $140; Wilkinson Co., Ltd., $729.13		
		$621,632 69	
	By cash	1,307 32	
		620,325 37	
			644,388 57
	Carried forward		$4,263,137 10

No. of Vote.	SERVICE.		Expended.
	CAPITAL ACCOUNT—*Continued.*		
	(EXPENDITURES OUT OF INCOME)—*Continued.*		
	Brought forward		$4,263,137 10
	SPECIAL WARRANT NO. 34—RE UNEMPLOYMENT RELIEF.		
	Corporation of City of New Westminster, loan	$ 25,000 00	
	Corporation of City of Salmon Arm, loan	8,000 00	
	District Municipality of Salmon Arm, loan	10,000 00	
	District Municipality of South Vancouver, loan	30,000 00	
	Corporation of City of Victoria, loan	50,000 00	
			123,000 00
	SPECIAL WARRANT NO. 48—GIRLS' INDUSTRIAL SCHOOL.		
	Cow-barn.		
	F. P. Rogers		3,612 50
	Total Capital Expenditures (charged to Income)		$4,389,749 60

PROVINCE OF BRITISH COLUMBIA.

CAPITAL ACCOUNT.

SUMMARY OF STATUTORY EXPENDITURE FOR THE FISCAL YEAR ENDED 31ST MARCH, 1921.

(DETAILED AT PAGES 289–300.)

Authority.	SERVICE.	Amount.
"B.C. Loan Act, 1916"	Pacific Great Eastern Railway	$ 270,000 00
"B.C. Loan Act, 1917"	Land Settlement Board	150,000 00
"B.C. Loan Act, 1919," sec. 7 (*a*)	Trunk and Main Roads	619,518 59
" sec. 7 (*b*)	Land Settlement Board	800,000 00
" sec. 7 (*c*)	"Soldiers' Land Act, 1918"	168,182 18
" sec. 7 (*d*)	Conservation Fund	325,000 00
"Better Housing Act, 1919"	Housing Loans	773,550 00
"Department of Industries Act, 1919"	Industrial Development Fund	855,000 00
"B.C. Loan Act, 1920," sec. 7 (*b*)	"Soldiers' Land Act, 1918"	299,378 86
" sec. 7 (*c*)	Conservation Fund	470,000 00
"B.C. Highway Loan Act, 1920"	Trunk and Main Roads	569,248 51
"B.C. University Loan Act, 1920"	British Columbia University	96,016 74
"P.G.E. Construction Loan Act, 1920"	Pacific Great Eastern Railway	3,974,668 40
"P.G.E. Note Payment Loan Act, 1920"	" "	4,800,000 00
Total Capital Expenditures (Statutory)		$14,170,563 28

RECAPITULATION.

Pacific Great Eastern Railway	$ 9,044,668 40
Trunk and Main Roads	1,188,767 10
Land Settlement Board	950,000 00
Industrial Development Fund	855,000 00
Conservation Fund	795,000 00
Housing Loans	773,550 00
"Soldiers' Land Act, 1918"	467,561 04
British Columbia University	96,016 74
	$14,170,563 28

CAPITAL ACCOUNT.

(STATUTORY EXPENDITURES.)

SERVICE.		Expended.
"LOAN ACT, 1916."		
Pacific Great Eastern Railway Co.: Loan		$ 270,000 00
"LOAN ACT, 1917."		
Land Settlement Board: Advances		150,000 00
"LOAN ACT, 1919."		
SEC. 7 (*a*)—TRUNK AND MAIN ROADS.		
Engineering District No. 1.		
P. Bennett, $91.70; J. L. Bowden, 50c.; B.C. Cement Co., Ltd., $7,785.31; C.P.R. Telegraphs, $1.14; Canadian Western Fuel Co., Ltd., $94.20; J. H. Clarke, $7.80; Colonist P. & P. Co., Ltd., $14.40; Cowie Machine Co., $8.45; H. E. Dendoff, $4; Dominion Government Telegraphs, 60c.; Esquimalt Water Works Co., $3,713.18; C. L. Grant, $3.70; J. R. Grayshon, $21.70; Hodgson & Stobart, $17.75; A. Hogg, $9; Kelly, Douglas & Co., Ltd., $10.20; W. H. Morton, $10; Mussen's, Ltd., $46.80; P. McCape, $55.20; J. W. McKenzie & Son, $14.70; Nanaimo Lumber Co., Ltd., $142.60; Palmer Bros., $26,919.29; H. O. Sacht, $21.66; F. R. Stewart & Co., Ltd., $3.45; E. R. Taylor, $20.10; Twin City Transfer Co., $2.25; Victoria Auto Livery, $8.70; F. Wagstaff, $1.95; C. H. & M. Webb, $14; P. Wylie, $1.85; pay-lists, labour and team-work, $8,304.56		
Total, Engineering District No. 1	$ 47,350 74	
Engineering District No. 2.		
Anderson & Lusby, $162.70; P. Bain, $8.04; Barrett Co., $3,176.20; Belyea & Co., Ltd., $20; A. R. Bissell, $12; B.C. Cement Co., Ltd., $44,116.10; B.C. Drafting & Blue Printing Co., $11.80; B.C.E.R. Co., Ltd., $2,408.43; B.C. Record, $10.40; B.C. Refining Co., Ltd., $1,500.94; Canadian Explosives, Ltd., $48.06; C.P.R. Co., $3.53; J. Cannon, $275; Chapman's Motor Cartage, $1; City of Chilliwack, $16,615.97; City Map & White Print Co., $1.20; T. Clarke, $10.50; Clayton Lumber Co., $54; Cloverdale Hotel, $95; M. P. Cotton & Co., Ltd., $110,120.82; W. H. Cotton, $73.31; Crawford Battery Co., $2.15; A. R. Dean, $5; Municipality of Delta, $1,000; Dixon Motors, Ltd., $40.27; Dousett's Studio, $8.08; Duplex Motors, Ltd., $15.80; Eagle Junk Co., $18.65; Eburne Gravel Co., $221.38; Electric Blue Print & Map Co., $99.65; A. C. Evens, $39; R. S. Fotheringham, $39; J. E. Gerard, $27.50; Gilley Bros., Ltd., $8,250.75; C. G. Hagg, $279.05; Harrison & Lamond Construction Co., Ltd., $56,927.71; Harrison & Co., $31.25; Imperial Oil, Ltd., $261.42; Johnston Storage Co., Ltd., $35; D. S. Jones-Evans, $59.40; King's Printer, $66.94; Lawrence & Bishop, $12.50; Lillies Garage & Machine Shop, $16.35; D. Lockart, $34.50; W. H. Matthews, $13; L. V. Miller, $9.95; R. T. McEwan, $5.50; McClary Manufacturing Co., $1; McLennan, McFeely & Co., Ltd., $39.05; Corp. of District of North Vancouver, $5,482.33; Palmer Bros., Ltd., $33,768.67; H. P. Peterson Construction Co., Ltd., $45,404.14; H. Pope, $10.50; Record Publishing Co., $50.60; Corp. of Richmond, $2,253.50; Ridley-Kennedy, Ltd., $98.94; C. C. Snowden, $6; F. W. Stubbs, $45.55; Surrey Municipality, $900; Times P.		
Carried forward	$ 47,350 74	$ 420,000 00

SERVICE.		Expended.
CAPITAL ACCOUNT—*Continued.*		
(STATUTORY EXPENDITURES)—*Continued.*		
"LOAN ACT, 1919"—*Continued.*		
SEC. 7 (*a*)—TRUNK AND MAIN ROADS—*Continued.*		
Brought forward	$ 47,350 74	$ 420,000 00
Engineering District No. 2—Continued.		
& P. Co., Ltd., $37.80; I. D. Todd, $187.20; Vancouver Daily Province, $230.65; Vancouver Daily Sun, $125.70; White Star Motor Line, $1.25; T. H. Whiting, $19.07; H. Wighton, $79.25; The World, Ltd., $14.70; pay-lists, labour and team-work, $11,183.01		
	$346,183 71	
By cash	3,237 86	
Total, Engineering District No. 2	342,945 85	
Engineering District No. 3.		
Armstrong's Department Store, Ltd., $757.52; R. F. Barrett, $213.57; Bell & Armstrong, $46; C. A. Bigney, $260.75; Brayden & Johnston, $102.09; J. Burns, $90.30; I. E. Burr, $8; Canada Ingot Iron Co., Ltd., $1,339.14; C.P.R. Co., $120.88; Clarke & Stuart Co., Ltd., $131.07; J. R. Colley, $310.70; F. P. Cook Estate, $18.25; N. S. Dalgleish, $69.05; M. Dumond, $21.25; J. L. Dunlop, $155; W. J. Ellis & Co., $5; H. F. Farmer, $6.50; G. Farrar, $86; J. Guinet, $87.65; Hedley-Shaw Milling Co., $769.25; A. E. Howse Co., $420.75; N. Huston, $100; Imperial Oil, Ltd., $476.21; City of Kamloops, $4; Kelly, Douglas & Co., Ltd., $440.83; Kettle Valley Railway Co., $45; King's Printer, 94c.; J. A. Menzies, Ltd., $60.69; Merritt Mercantile Co., $246.56; Merritt Transfer, $2; Model Livery Barn, $5; Monte Creek Trading Co., Ltd., $4; S. J. McDiarmid, $30.01; C. McIntosh, $5.95; McKinnon Heating & Plumbing Co., $34.80; McLennan, McFeely & Co., Ltd., $22.37; W. Newnes, $8.65; Nicola Pine Mills, Ltd., $8.60; Nicola Valley Garage, $13.60; R. J. Riddell, $68.76; D. H. N. Russell, $12.20; S. M. Studebaker, $18.72; Taylor & Anderson, $47.50; J. K. Urquhart, $15.75; H. R. Wade, $454.30; Ward Motor Co., $143.10; Wilcox-Hall Co., Ltd., $27.70; E. R. Williams, $35.39; T. Williams, $47.42; pay-lists, labour and team-work, $33,156.45		
Total, Engineering District No. 3	40,555 22	
Engineering District No. 4.		
F. H. Bassett, $9; B.C. Equipment Co., Ltd., $851.68; B.C. Land Settlement Board, $597.40; J. A. Brown, $22.50; Canadian Fairbanks-Morse Co., $139.53; Carter Bros., $128.15; Community Lumber Co., Ltd., $40.95; A. W. Davis, $58,045.02; C. Donnelly, $91.80; Dufresne & Whitaker, $190.80; Electric Blue Print & Map Co., $18.40; S. T. Elliott, $3; Falkland General Store, $3.11; G. Farrar, $10; V. Fetterley, $86.90; R. D. Fraser, $4.60; J. Gostisha, $60; T. M. Gulley & Co., $5; Hanley & Brown, $5.50; Harrison & Taylor, $28; L. A. Hayman, $6; H. & C. Trading Co., Ltd., $24; Inland Trading Co., $502.49; Jenkins Co., Ltd., $7; F. Jeune & Bro., Ltd., $616.82; J. M. Jordan, $10; J. Kehoe, $12.64; Kelowna Saw Mills Co., Ltd., $34.25; Kettle Valley Railway Co., $113.64; W. R. King & Co., Ltd., $45.50; King's Printer, $36.65; Lee & Bryan, $29.95; Leir Lumber Co., Ltd., $341.26; H. B. Morley & Co., Ltd., $150.67; McLennan, McFeely & Co., Ltd., $522.50; W. O'Donnell, $139.67; C. A. Olsen, $10.75; Osoyoos Lumber Co., $478.32; Penticton Departmental Stores, $14.70; Penticton Hardware Co., $150.92; Penticton Herald, $6; Penticton		
Carried forward	$430,851 81	$ 420,000 00

SERVICE.		Expended.
CAPITAL ACCOUNT—*Continued.*		
(STATUTORY EXPENDITURES)—*Continued.*		
"LOAN ACT, 1919"—*Continued.*		
SEC. 7 (*a*)—TRUNK AND MAIN ROADS—*Continued.*		
Brought forward	$430,851 81	$ 420,000 00
Engineering District No. 4—Continued.		
Saddlery, $37.72; Record Publishing Co., $27.30; Restmore Manufacturing Co., Ltd., $80.07; Rock Creek Trading Co., Ltd., $51.90; Rossland Water & Light Co., $1; G. H. Rusch, $3; P. J. Salvus, $4,842.55; E. Saunders, $32; H. W. Stevens, $135; Sutcliffe & Sismey, $15.05; Vancouver Daily Province, $42.90; Vancouver Daily Sun, $37.80; Vernon Hardware Co., Ltd., $14.50; Vernon News Printing & Publishing Co., Ltd., $12; W. H. Wainman, $6.30; Wood, Vallance & Leggat, Ltd., $157.56; pay-lists, labour and team-work, $13,832.99		
Total, Engineering District No. 4	82,924 71	
Engineering District No. 5.		
Christian Community of Universal Brotherhood, $600; Creston Mercantile Co., $1; Dominion Express Co., $3.40; Electric Blue Print & Map Co., $22.40; Green Bros. Burden & Co., $96.10; Hardware & Furniture Supply Co., $4.15; G. A. Hunt, $500; T. P. Johnston, $84.85; Kaslo Transfer Co., $15.80; King's Printer, $6.50; Land Settlement Board, $11,043.32; W. Morrow, $3.50; E. McCabe, $275; A. McDonnell, $8,794.51; S. Pascuzzo, $1,957.50; Rawling's & La Brash, $3,168.62; Record Publishing Co., $10; Revelstoke Review Publishing Co., $11.28; T. Rogers, $7.05; T. W. Sayer, $17.72; S. A. Speers, $18.20; Vancouver Daily Sun, $40.50; pay-lists, labour and team-work, $1,130.87		
	$27,812 27	
By cash	122 50	
Total, Engineering District No. 5	27,689 77	
Engineering District No. 6.		
T. Alton, $57.59; G. Arnold, $73.60; T. E. Barry, $15; B.C. Auto Livery, $12; C.P.R. Co., $64.71; R. C. Carr, $67.60; City Transfer & Warehouse Co., $158; Columbia River Lumber Co., $45.63; S. Craig, $7.25; Cranbrook Cartage & Transfer Co., $67.20; Crow's Nest Pass Lumber Co., $11.35; Dominion Express Co., 50c.; M. H. Fraling, $48.45; J. Gard, $15; Hanson Garage, $2.50; W. Hughes, $1; Imperial Oil, Ltd., $387.28; Invermere Construction & Supplies, Ltd., $36.05; G. Kennedy, $22.10; H. Kershaw & Son, $2.40; Lake & Co., $3.50; A. M. Langlands, $7.50; A. Larson, $6.70; T. Mercier, $1.50; McCreery Bros., $3.75; McLeod & Harrison, $67.14; E B. Nelson, $16.75; F. Parks & Co., $447.65; T. N. Parrett, $6; D. R. Rolston, Ltd., $19.70; M. A. Smith, $2.25; A. A. and J. E. Soles, $362.88; J. Tipper, $81.70; Wilmer Mercantile Co., $8.50; pay-lists, labour and team-work, $54,045.23		
Total, Engineering District No. 6	56,175 96	
Engineering District No. 7.		
Albert & McCaffery, Ltd., $108.55; Alice Arm Freighting Co., $16; A. L. Aslin, $3; Bennett & Roberts Co., $8; G. W. Bruggy, $100.65; Burns Lake Garage, $6.25; Burns Lake Trading Co., $11.95; W. C. Cameron, $6; Canadian Explosives,		
Carried forward	$597,642 25	$ 420,000 00

SERVICE.		Expended.
CAPITAL ACCOUNT—*Continued.*		
(STATUTORY EXPENDITURES)—*Continued.*		
"LOAN ACT, 1919"—*Continued.*		
SEC. 7 (*a*)—TRUNK AND MAIN ROADS—*Continued.*		
Brought forward	$597,642 25	$ 420,000 00
Engineering District No. 7—Continued.		
Ltd., $4,367.23; Canadian Express Co., $9.15; A. Chisholm, $224.57; City Transfer, $256.09; N. M. Clarke, $2.60; E. M. Condon, $125; Crawford Transfer Co., $1,948.87; G. Culp, $35; C. L. Dimock, $16; R. A. Doull, $503.94; S. A. Eby, $26.55; A. Falconer, $44.60; T. W. Falconer, $85.30; G. Farrow, $45; J. Fields, $150; H. Fotherby, $3; Gayer & Connelly, $278.60; Giant Powder Co. of Canada, Ltd., $82.43; J. Goold, $5.50; Granby Consolidated Mining, Smelting & Power Co., Ltd., $52.60; G.T.P. Coast Steamship Co., Ltd., $1.38; G.T.P. Railway Co., $287.66; W. Hanna, $24.75; H. Hanson, $4.60; J. L. Hatch, $13.10; Howe & McNulty, $662.76; M. Hutter, $150; Hyder Lumber Co., $162.36; Hyder Transfer Co., $206.31; R. R. Jeffrey, $77.31; C. H. Jones & Son, Ltd., $181.21; Lands Department, $1.80; G. Little Lumber Yards, $13.92; S. Long, $210; W. Lukins, $43.75; J. F. Maguire, $6.95; McGettigan Bros., $64.40; A. McInnes, $53.10; G. McKenzie, $22.05; A. McLean, $6; W. McLean, $5; J. McRae, $135; Pacific Cartage, 75c.; R. Peterson, $87.50; Pioneer Ranch, $61.25; C. P. Riel, $53.20; C. Ross, $75; W. Ryan, $45; Salmon River Trading Co., Ltd., $572.60; C. Staats, $4; Stearns Hardware Co., $164.95; Stewart News Co., $2.10; J. P. Suttie, $44.25; B. L. Tingley, $73; G. D. Tite, $149.35; G. M. Walker, $5.25; F. Watson, $4.05; Wiggans & Hawthorne, $10.25; pay-lists, labour and team-work, $41,495.49		
Total, Engineering District No. 7	53,703 83	
Engineering District No. 8.		
H. Brawn, $17.50; H. E. Carleton, $156.32; Giant Powder Co. of Canada, Ltd., $2,527.50; E. C. McGeachy, $12.10; J. W. Miers, $150; transfers from Vote 251, $2,385.26		
	$5,248 68	
By transfers to Vote 251	490 87	
Total, Engineering District No. 8	4,757 81	
Engineering District No. 9.		
A. Baker, Sr., $240; R. N. Borrowman, $13; B.C. Express Co., $501.41; Canadian Explosives, Ltd., $2,204.49; L. Champlain, $190; Clarke & Stuart Co., Ltd., $23.75; Cowan Supply Co., $146.85; W. G. Crowston, $47; J. A. Dale, $11.90; N. S. Dalgleish, $20.45; S. Dalgleish, $17.15; Deep Creek Lumber Co., $8; R. Fraser, $32.22; Highland Ranch, $2.70; W. Huston, $60; Imperial Oil, Ltd., $260.54; Johnston Bros., $99.66; L. LaBourdais, $12.50; F. C. Lane, $40; G. Lasher, $18.75; J. A. Lazzerin, $21.40; H. Leaning, $110.35; W. Lee & Co., $1.20; C. Leonard, $369.56; J. Mackay, $69.50; F. Michel, $2.25; Northern Hardware Co., $750; C. A. Phair, $15.75; R. Pickard, $2.50; Porter Hay & Grain Co., $184; W. W. Purdy, $20.25; J. H. Rush, $59.60; J. Shepherd, $183.14; G. Smith, $12.75; F. M. Sterry, $15; W. Webster, $281.92; pay-lists, labour and team-work, $8,880.83		
Total, Engineering District No. 9	14,930 37	
Carried forward	$671,034 26	$ 420,000 00

SERVICE.			Expended.
CAPITAL ACCOUNT—*Continued.*			
(STATUTORY EXPENDITURES)—*Continued.*			
"LOAN ACT, 1919"—*Continued.*			
SEC. 7 (*a*)—TRUNK AND MAIN ROADS—*Continued.*			
Brought forward	$671,034 26		$ 420,000 00
General Engineering.			
Assistant Engineer, D. W. Johnston, salary $1,268, expenses $104.65			
Draughtsman, H. S. Becton, salary $882	2,254 65		
	$673,288 91		
Less contribution by Dominion Government under "Canada Highways Act"	53,770 32		
Total expenditure, Sec. 7 (*a*)—Trunk and Main Roads		$619,518 59	
SEC. 7 (*b*)—LAND SETTLEMENT BOARD.			
Land Settlement Board: Advances		800,000 00	
SEC. 7 (*c*)—"SOLDIERS' LAND ACT, 1918."			
Southern Okanagan Project.			
Salaries:			
Project Engineer ..... F. H. Latimer	$ 300 00		
Assistant Project Engineer ..... H. Earle	250 00		
Pay-lists, labour	5,643 80		
	$ 6,193 80		
Miscellaneous: B.C. Cement Co., Ltd., $18,022.07; C. E. Burtch, $364.69; Canadian Fairbanks-Morse Co., Ltd., $90.72; Canadian N.W. Steel Co., Ltd., $866.08 Canadian Pipe Co., Ltd., $447.39; Central Garage, $43.45; J. L. Crismon, $294; Electric Blue Print & Map Co., $61.95; A. Fleming, $498.29; J. R. Grant, $83.32; A. E. Griffin, $99,358.44; R. Hamilton & Co., $142.20; R. Hardesty Manufacturing Co., $27,398.76; R. W. Hunt & Co., Ltd., $902.50; Imperial Oil, Ltd., $42.55; F. Jeune & Bro., Ltd., $199.30; W. J. Kane, $358.36; Kettle Valley Railway Co., $11.52; H. W. Main, $8.10; Mainland Engineering Co., Ltd., $164.76; H. B. Morley & Co., Ltd., $39.43; J. P. McCuddy, $340.21; McLennan, McFeely & Co., Ltd., $468.96; Occidental Fruit Co., $78.50; Pacific Coast Pipe Co., Ltd., $9,799.81; Pacific Sheet Metal Works, $181; Penticton Battery Service Station, $5; Penticton Department Stores, $48.20; Penticton Dray & Express Co., $42; Penticton Hardware Co., $398.35; Penticton Saddlery, $2.80; Sharp's Garage, $8.25; Simonds Canada Saw Co., Ltd., $85.96; F. Simons, $188.06; D. P. Simpson, $68; W. A. Simpson, $25; Southern Okanagan Transportation Co., $122.19; Syer & Smith, $219.73; Triangle Motor Service, $26.85; W. G. Wilkins, $46.65	161,553 40		
	$167,747 20		
By cash	1,120 97		
Total expenditure, S. Okanagan Project		$166,626 23	
Houses, South Vancouver.			
T. Carson, $100; Columbian Co., Ltd., $16; Corporation of the District of South Vancouver, $524.70; F. P. Rogers, $915.25			
Total expenditure, Houses, South Vancouver	1,555 95		
Total expenditure, Sec. 7 (*c*)—"Soldiers' Land Act, 1918"		168,182 18	
Carried forward		$1,587,700 77	$ 420,000 00

SERVICE.			Expended.
CAPITAL ACCOUNT—*Continued.*			
(STATUTORY EXPENDITURES)—*Continued.*			
"LOAN ACT, 1919"—*Continued.*			
Brought forward		$1,587,700 77	$ 420,000 00
SEC. 7 (*d*)—CONSERVATION FUND.			
Conservation Fund: Advances		325,000 00	
Total expenditure, "Loan Act, 1919"			1,912,700 77
"BETTER HOUSING ACT, 1919."			
Housing Loans.			
Municipalities of: Burnaby, $25,500; Courtenay, $35,000; Duncan, $3,500; Esquimalt, $8,000; Kamloops, $20,000; Kelowna, $25,800; Matsqui, $2,000; Nanaimo, $30,000; New Westminster, $50,000; North Vancouver (City), $40,000; North Vancouver (District), $30,500; Oak Bay, $13,950; Penticton, $18,000; Point Grey, $40,000; Port Alberni, $7,000; Port Coquitlam, $2,800; Prince George, $25,000; Prince Rupert, $25,000; Saanich, $4,000; Salmon Arm (City), $3,500; South Vancouver, $40,000; Trail, $9,000; Vancouver, $175,000; Vernon, $20,000; Victoria, $95,000; West Vancouver, $25,000		$773,550 00	
Total expenditure, "Better Housing Act, 1919"			773,550 00
"DEPARTMENT OF INDUSTRIES ACT, 1919."			
Industrial Development Fund: Advances			855,000 00
"LOAN ACT, 1920."			
SEC. 7 (*b*)—"SOLDIERS' LAND ACT, 1918."			
Southern Okanagan Project.			
Salaries:			
Project Engineer	F. H. Latimer	$ 600 00	
Assistant Project Engineer	H. Earle	500 00	
Pay-lists, labour		12,873 42	
Travelling Expenses:			
F. H. Latimer		207 41	
Miscellaneous: C. G. Baker, $13; B.C. Cement Co., Ltd., $7,104.83; Buff & Buff Manufacturing Co., $6.37; P. Burns & Co., Ltd., $18; C. E. Burtch, $537.45; C. A. Butler, $283.05; Canadian North West Steel Co., Ltd., $102; Central Garage, $3.10; C. F. Chaffey, $71.10; Chittenden & McKeen, $98; Clarke & Stuart Co., Ltd., $29.98; Dominion Bridge Co., $40.000; Dominion Express Co., $38.27; Dominion Government Telegraphs, $64.37; Echo Bay Ranch, $13.50; Evans, Coleman & Evans, Ltd., $118.29; Grand Forks Garage Co., $1.25; C. de B. Green, $198.25; C. Greer, $444; Greer & Butler, $12.10; A. E. Griffin, $207,993.31; R. Hardesty Manufacturing Co., $3,044.31; Hatfield Motors, $29.51; Imperial Oil, Ltd., $512.04; S. Johnson & Co., $363.06; D. Keith, $16,147.04; E. Kennedy, $208.46; Kettle Valley Railway Co., $619.54; W. R. King & Co., $1.25; F. H. Latimer (sundry accounts), $43.38; Leir Lumber Co., $87.50; Letson & Burpee, $279; licences, $20; Macey-Abell Co., Ltd., $6.50; H. W. Main, $10.75; W. H. Malkin & Co., Ltd., $900.25; H. B. Morley & Co., Ltd., $13.27; J. P. McCuddy, $8.19; McInnes Garage, $46.05; McLennan, McFeely & Co., Ltd., $10.08; A. J. McPherson, $11.95; S. J. Nasmith, $3.50; Occidental Fruit Co., $2,658.16; Okanagan Garage, $13.10; Okanagan Nurseries, $53.05; Pacific Coast Pipe Co., Ltd.,			
Carried forward		$ 14,180 83	$3,961,250 77

SERVICE.		Expended.
CAPITAL ACCOUNT—*Continued.*		
(STATUTORY EXPENDITURES)—*Continued.*		
"LOAN ACT, 1920"—*Continued.*		
SEC. 7 (*b*)—"SOLDIERS' LAND ACT, 1918"—*Continued.*		
Brought forward	$ 14,180 83	$3,961,250 77
Southern Okanagan Project—Continued.		
$12.90; A. E. Patton, $348.50; Penticton Battery Service Station, $17.50; Penticton Dray & Express Co., $45.27; Penticton Garage, $26.50; Penticton Hardware Co., $106.01; Penticton Herald, $141.69; Penticton Tire Hospital, $324.77; F. Phillips, $52.64; J. E. Reekie, $69.70; Simonds Canada Saw Co., Ltd., $60.90; D. P. Simpson, $126.43; Simson, Balkwill & Co., Ltd., $12.36; South Okanagan Supply Co., Ltd., $306.74; South Okanagan Transportation Co., $188.19; N. J. Stanton, $85.40; Syer & Smith, $281.10; Triangle Motor Service, $10.25; Vancouver Engineering Works, $25.63; W. G. Wilkins, $60; J. Wyllie, $1,025.25	285,567 89	
	$299,748 72	
By cash	369 86	
Total expenditure, Sec. 7 (*b*)—"Soldiers' Land Act, 1918"	299,378 86	
SEC. 7 (*c*)—CONSERVATION FUND.		
Conservation Fund: Advances	470,000 00	
Total expenditure, "Loan Act, 1920"		769,378 86
"HIGHWAY LOAN ACT, 1920."		
TRUNK AND MAIN ROADS.		
Engineering District No. 1.		
P. Bennett, $185.35; A. Bergoff, $8; R. Bleakley, $15.70; T. Booth & Sons, 23c.; W. T. Boulton, $15.70; F. Bourke, $15.70; B. & K. Milling Co., Ltd., $60.88; B.C.E.R. Co., Ltd., $711.01; B.C. Telephone Co., $1,049.48; E. G. Brown, $15.70; P. Burns & Co., $906.02; Canadian Explosives, Ltd., $6.75; Canadian Fairbanks-Morse Co., Ltd., $32.25; C.P.R. Co., $67.57; Canadian Western Fuel Co., $216.60; A. G. Cartwright, $15.70; A. Chatham, $15.70; F. Chevalley, $15.70; W. Chisholm, $15.70; J. H. Clarke, $47.60; A. J. Claydon, $31.40; E. T. Cliffe, $48.19; L. S. Cokely, $2.60; Courtenay Lumber Co., $23.04; Cowie Machine Co., $38.71; F. Dack, $32; H. E. Dendoff, $15; W. Dobbie, $15.70; Dominion Express Co., $55.58; Dominion Government Telegraphs, $73.77; Dominion Rubber System, Ltd., $83.10; W. Duff, $15.70; R. P. Edwards, $21; Electric Blue Print & Map Co., $33.85; E. & N. Railway Co., $556; H. Essler, $15.70; Evans, Coleman & Evans, Ltd., $1,226.70; S. Fieldhouse, $15.70; W. S. Fraser & Co., Ltd., $852.69; Giant Powder Co., $43.14; H. Gibson, $6.13; J. G. Glennie, $15.70; R. Graham, $15.70; C. L. Grant, $14.90; M. Gratton, $15.70; J. R. Grayshon, $6.20; Gwilt Lumber Co., Ltd., $455.23; J. Haile, $15.70; W. Haile, $15.70; T. Harris, $10; W. E. Hawkes, $15.70; J. Heaney, $23.10; Herald Printing & Publishing Co., Ltd., $10.08; Hocking & Woodworth, $92; Hodgson & Stobart, $45; A. Hoffman, $15.70; A. Hogg, $36; A. E. Hole, $5.50; Imperial Oil, Ltd., $379.53; H. C. Ingall, $15.70; Islands Fruit Growers' Association, $88.20; F. Jeune & Bro., Ltd., $1,137.82; D. W. Johnston, $35; C. H. Jones & Son, Ltd., $24.95; W. Kask, $3; F. Kelly, $616.05; Kelly-Douglas & Co., Ltd., $1,278.61; King's Printer, $91.71; Kirstin Canadian Co., $338.85; Land Settlement Board, $6.65; C. Lee, $15.70; Lemon-Gonnason Co., Ltd., $8.95; Lummi Bay Packing Co., $100; A. M. Lyon, $644.29; W. H. Malkin Co., Ltd., $908.55; E. B. Marvin & Co., $24.31; Merville Garage, $74.85; T. W. Milan, $15.70; Morton Bros., Ltd., $283.25; Mottishaw & Morrison, $160.66; Mouat Bros. & Co.,		
Carried forward		$4,730,629 63

SERVICE.	Expended.

CAPITAL ACCOUNT—*Continued.*

(STATUTORY EXPENDITURES)—*Continued.*

"HIGHWAY LOAN ACT, 1920"—*Continued.*

TRUNK AND MAIN ROADS—*Continued.*

Engineering District No. 1—Continued.

Brought forward $4,730,629 63

Ltd., $3.10; W. A. McAfee, $6.75; A. McBeth, $7.75; P. McCape, $75.34; J. McKenzie & Son, $188.21; McClary Manufacturing Co., $14.60; McLennan, McFeely & Co., Ltd., $1,242.77; Nanaimo City, $30; Nanaimo Foundry, $226.25; Nanaimo Indian Reserve, $10; Nanaimo Lumber Co., Ltd., $183.44; Nanaimo Transfer, $11; National Drug & Chemical Co. (Canadian), Ltd., $79.70; Parsons & Elkins, $126.70; H. A. Phillips, $897.10; postage, $15; E. G. Prior & Co., Ltd., $173.50; A. T. Purry, $15.70; W. Read, $123.60; Renney Wharfage Co., $43.55; W. A. Richardson, 88c.; W. G. Robertson, $2.05; Robertson & Hackett, $19.40; T. Robinson, $15; Saanich Corporation, $992.87; Sampson Hardware Co., $5.50; E. Savident, $15.70; Sidney Rubber Roofing Co., Ltd., $1,381; Simmons, Ltd., $56.56; H. W. Simpson, $17.20; F. Smith, $38.10; M. M. Stephens, $121.40; F. R. Stewart & Co., Ltd., $389.64; R. Stobart, $1.80; Storey & Campbell, Ltd., $51.70; J. Sullivan, $15.70; R. J. Surgenor, $36; E. Swan, $13; C. H. Tarbell & Son, $20.30; Union Steamship Co. of B.C., $109.85; F. Wagstaff, $5.80; J. W. Wagstaff, 60c.; G. Weir, $15.70; P. White (Indian), $20; Wood, Vallance & Leggat, Ltd., $213.23; pay-lists, labour, $49,603.71

$70,320 53

By cash 1,345 46

Total, Engineering District No. 1 ..... $ 68,975 07

Engineering District No. 2.

Acme Garage, $111.02; W. E. Adams, 86c.; Alberta Lumber Co., $1,507.47; Anderson & Lusby, $643.16; P. Bain, $8.64; Balfour, Guthrie & Co., $840.38; Barrett Co., Ltd., $1,389.10; Beaver Interurban Auto Transfer, $25; R. Benner, 60c.; Bowman's Storage, $6; B.C. Cement Co., Ltd., $1,372.51; B.C. Drafting & Blue Printing Co., $10.95; B.C.E.R. Co., Ltd., $262.28; B.C. Record, $20.34; B.C. Telephone Co., Ltd., $28.20; I. Buck, $8; Bucklin Lumber Co, Ltd., $4.45; Burr Office Supplies, $5.10; Cameron Transfer, $21; Canadian Explosives, Ltd., $26.16; Canadian Junk Co., $296; C.P.R. Co., Ltd., $102.84; Chilliwack Vulcanizing Works, $61.65; Chislett's Super-Service Station, $29.35; City Map & White Print Co., $1.20; Cloverdale Hotel, $196.25; Clugston & Barton, $108.80; Coast Motor Transfer, $4.50; W. S. Collister & Co., $1.90; Columbia Garage, $198.23; M. P. Cotton Co., $16,756.66; G. Cunningham, 75c.; Cunningham Hardware Co., $19.57; Delta Municipality, $1,000; Dixon Motors, Ltd., $284.19; Dominion Rubber System, Ltd., $73.46; Duplex Motors, Ltd., $268.38; Eagle Junk Co., $206.91; Eburne Saw Mills, Ltd., $160.68; Endacott Trading Co., $124.82; Federal Motor Co., Ltd., $3.50; Frear & Grant, $3.90; H. M. Fullerton, $1,632.18; Galbraith & Sons (Assignee), $16.83; Giant Powder Co., Ltd., $7.64; J. B. Gilfillan, $15.10; Gilley Bros., Ltd., $7,398.97; F. Goertz, $25.50; H. Haigh, $1.55; Hamre & Carmichael, $20.85; H. C. Harker, $11.50; Harrison & Lamond, $16,070.12; Harrison & Co., $1; Hawkins & Horrie, $396.15; J. Heaney, $42.19; G. Holland, $27; Imperial Oil, Ltd., $439.85; Ioco Townsite Co., Ltd., $102.97; Jackson Printing Co., $20.25; Johnston Storage Co., Ltd., $192.50; C. H. Jones & Son, Ltd., $809.30; F. Jones, $29.55; King-Farris Lumber Co., Ltd., $429; King's Printer, $21.50; H. T. Kirk, $227.71; Ladner Lumber, Ltd., $261.16; Lanning, Fawcett & Wilson, Ltd., $1.71; Launch "Echo," $18.35; E. Lipsett, $863.65; Menzies Hardware Co., Ltd., $38.55; Mustard & Symington, $4.30; R. T. MacEwan, $51.10; McClary Manufacturing Co., 55c.; McLellan, McCarter Co., $74.30; McLennan, McFeely & Co., Ltd., $412.45; National Drug & Chemical Co. of Canada, Ltd., 50c.; J. Nichol, $18; Pacific Meat Co., Ltd., $285.68; Palmer Bros., $2,304.52; H. V. Parr,

Carried forward ..... $ 68,975 07 $4,730,629 63

SERVICE.		Expended.
CAPITAL ACCOUNT—*Continued.*		
(STATUTORY EXPENDITURES)—*Continued.*		
"HIGHWAY LOAN ACT, 1920"—*Continued.*		
TRUNK AND MAIN ROADS—*Continued.*		
Engineering District No. 2—Continued.		
Brought forward	$ 68,975 07	$4,730,629 63
$2.25; G. Pepin, $10; H. P. Peterson Construction Co., Ltd., $33,037.64; City of Port Moody, $1,131.32; Queensboro Shipyards, $271.85; Richmond, Corporation of, $669; Richmond Garage, Ltd., $155.93; G. Rockwell, $1,221.40; Ross Howard Iron Works Co., Ltd., $101.16; L. A. Rostein, $40; Schaake Co., Ltd., $91.33; O. W. Smith, $87.60; G. N. Stowe, $1.95; Corporation of the District of Surrey, $2.200; Taylor Engineering Co., Ltd., $76.80; Timberland Lumber Co., $3,259.25; United Grain Growers, (B.C.), Ltd., $79.18; Valley Motor Co., $403.36; Vancouver Daily Province, $6.90; Vancouver Daily Sun, $9; Vancouver-Port Moody Ferries, Ltd., $8.10; Vanderpant Studio, $3; Victoria, City of, $20.50; Webb & Gifford, $55.12; C. A. Welsh, Ltd., $962.15; Westminster Iron Works, $24.30; H. L. Wighton, $7.30; Wood, Vallance & Leggat, Ltd., $29.71; Yee Lee, $24.35; Transfer from Vote 251—Roads, $687.40; pay-lists, labour and team-work, $36,854.72		
Total, Engineering District No. 2	$140,001 36	
Engineering District No. 3.		
Adams River Lumber Co., $361.03; Armstrong & Bell, $20; Armstrong's Department Stores, Ltd., $564.30; M. C. Baillie, $78.25; R. F. Barrett, $389.35; O. Bergeson, $459.25; Brayden & Johnston, $124.81; J. Burns, $22; Canadian Explosives, Ltd., $1,063.04; Canadian Northern Railway Co., $234.07; C.P.R. Co., $23.55; Clarke & Stuart Co., Ltd., $30.16; H. S. Cleasby, $110; J. R. Colley, $99.47; S. H. Currie, $45; N. S. Dalgleish, $37.25; J. L. Dunlop, $256.40; G. Farrar, $93; J. W. Fuller, $93; J. Fussee, $52.75; S. Gibson, $3.95; Hedley & Haselden, $32; Hedley-Shaw Milling Co., $53.90; A. E. Howse Co., Ltd., $49.20; A. Jackson, $6; Kettle Valley Railway Co., $2.05; H. Leaning, $20.40; Lester & Thomson, $7.25; Macbeth & Miller, $70.99; Merritt Mercantile Co., $103.77; A. McCorvie, $60; S. J. McDiarmid, $145.80; C. McIntosh, $60; W. Newnes, $24.75; Nicola Valley Garage, $23.80; Notch Hill Trading Association, Ltd., $13.98; E. A. Palmer & Co., $54.75; Princeton Drug Store, $3.35; I. R. Reilly & Co., $8.82; Safe, Ltd., $2.10; W. T. Syms, $2.25; Taylor & Anderson, $24; Thomas Bros., $48.25; A. Thomson, $25.50; J. K. Urquhart, $75.62; H. R. Wade, $192.20; Ward Motor Co., $23.92; pay-list, labour, $28,400.32		
	$ 33,695 60	
By cash	1,000 00	
Total, Engineering District No. 3	32,695 60	
Engineering District No. 4.		
F. H. Bassett, $18; E. E. Burr, $3; J. Cattanach, $2; D. Chapman, $10; E. A. Cleveland, $7.20; Community Lumber Co., Ltd., $16.80; A. W. Davis, $97,939.99; R. Davison, $26.90; W. H. Docksteader, 50c.; Dominion Express Co., 50c.; C. Donnelly, $21.69; G. Farrar, $10; W. S. Garrison, $300; F. Green, $126; Henderson's Livery, $7; Hunter Bros., Ltd., $1.50; Inland Trading Co., $385.30; R. C. Johnston, $1.80; J. M. Jordan, $10; J. Kehoe, $117.53; J. F. Leighton, $60.50; E. Lundgreen, $5.75; Morrison-Thompson Hardware Co., $16.30; R. A. McCullough, $5; McLennan, McFeely & Co., Ltd., $66.11; W. O'Donnell, $24.17; Osoyoos Lumber Co., $521.25; Penticton Department Store, $2.95; postage, $1; Rock Creek Trading Co., $49.65; Rossland Light & Water Co., $1; Salvus & Holl, $78; H. W. Stevens, $101.61; pay-list, labour, $16,245.06		
Total, Engineering District No. 4	116,184 06	
Carried forward	$357,856 09	$4,730,629 63

SERVICE.		Expended.

CAPITAL ACCOUNT—*Continued.*

(STATUTORY EXPENDITURES)—*Continued.*

"HIGHWAY LOAN ACT, 1920"—*Continued.*

TRUNK AND MAIN ROADS—*Continued.*

Brought forward $357,856 09 $4,730,629 63

Engineering District No. 5.

Angell Hardware Store, $2.70; P. Angrignon, $45; Archer Hardware Co., $2.75; W. J. Banting, $630.71; W. Barton, $38.50; Black & Cameron, $132.60; Byers, Giegerich, Green Co., Ltd., $9.95; W. G. Campbell, $10.35; Canadian Bank of Commerce, $10.40; C.P.R. Co., $86; Christian Community of Universal Brotherhood, $90; City Transfer Co., $1.25; Clarke & Stuart Co., Ltd., $12.32; Cranbrook Sash & Door Co., $1,565.01; Creston Auto & Supply Co., $19.50; Creston Fruit-growers' Union, $3.80; Creston Mercantile Co., $13.10; Creston Valley Store, $2.80; A. W. Davis, $14,413.07; D. Docksteader, $45; Dominion Express Co., $11.85; Dominion Government Telegraphs, $8.95; G. A. Earl, $9.10; Electric Blue Print & Map Co., $2.50; W. B. Embree, $11.10; Giant Powder Co., Ltd., $452.59; Goat Mountain Waterworks Co., $28; G. T. Store, $157.70; Grant-Smith Co. & McDonnell, Ltd., $27.70; Hardware & Furniture Co., $117.35; Henderson's Livery, $21; G. Hobden, $9.45; T. H. Hoben, $175.48; Howson's Furniture Store, $109.44; Hunter Bros., Ltd., $3.75; Imperial Oil, Ltd., $340.80; T. P. Johnston, $45.80; C. H. Jones & Son, Ltd., $33.96; A. Jonson, $3; J. M. Jordan, $30; Kaslo Transfer Co., $17.84; King's Printer, $4.89; Land Settlement Board, $2,026.66; Lindeley Bros. Canadian Co., $13.40; H. L. Littlewood, $5.25; E. Mallandaine, $4.54; J. D. Moore, 50c.; W. Morrow, $2.50; W. S. Murphy, $2.75; A. McDonnell, $36.632.16; Nelson Hardware Co., $432.46; S. Pascuzzo, $18; W. Ramsay, $2.05; T. Rogers, $112.95; Rossland Water & Light Co., $5; Sabulite Explosives Co., $124.58; A. Salikin, $215; St. Agnes Church, $17.25; M. Shannon, $2.50; Smedley's Garage, $42; J. B. Smith, $1.60; S. A. Speers, $6.30; Standard Silver Lead Mining Co., $108.10; H. G. Starr, $77.33; H. W. Stevens, $523.76; J. Thomson, $7; W. H. Wainman, $5.25; V. L. E. Watson, $9.25; Western Grocers, Ltd., $162.43; T. H. Wilson, $181.45; J. B. Winlaw, $9.90; Wood-Vallance Hardware Co., Ltd., $258.26; pay-lists, labour and team-work, $48,748.83

$108,516 07

By cash 7 00

Total, Engineering District No. 5 ..... 108,509 07

Engineering District No. 6.

P. Adlard, $5; F. Barr, $7; M. A. Berigan, $61.38; G. Bowen, $4.50; Brown & Crowe, $28; Canadian Oil Companies, Ltd., $83.76; C.P.R. Co., $284.27; F. Carlson, $13.30; Columbia Oil Co., Ltd., $327.90; Cranbrook Cartage Co., $33.06; Crow's Nest Pass Lumber Co., $7.10; East Kootenay Lumber Co., $5.95; Elk Valley Lumber Co., Ltd., $2,477.49; Fairmont Trading Co., $3.50; A. E. Ferguson, $84; Fernie Garage, $4.25; Fernie Motor Car Co., $3.90; W. L. Foisy, $6.25; Fort Steele Garage Co., $4; Fort Steele Trading Co., $1; Invermere Construction Supplies, $95.30; H. Johnson, $54.30; Kennedy & Mangan, $26.70; Kershaw & Son, $16.25; Kootenay Garage, $14.45; Lovering Lumber Co., Ltd., $15; A. Macdonald & Co., $19.54; E. B. Nelson, $18.80; J. A. Osborne, $37.45; J. H. Parkin, $176.01; T. N. Parrett, $13.35; Pitts & Hankey, $3.50; J. D. Quail, $16.22; R. A. Smith, $16.10; Trites-Wood Co., Ltd., $191.75; C. M. Walde, $2; Wilmer Mercantile Co., $12.86; Windermere Orchards, Ltd., $51.90; W. Woodland, $10; Yahk Lumber Co., Ltd., $46.62; pay-list, labour and team-work, $14,688.91

Total, Engineering District No. 6 ..... 18,972 62

Carried forward $485,337 78 $4,730,629 63

SERVICE.		Expended.

CAPITAL ACCOUNT—*Continued.*

(STATUTORY EXPENDITURES)—*Continued.*

"HIGHWAY LOAN ACT, 1920"—*Continued.*

TRUNK AND MAIN ROADS—*Continued.*

Brought forward $485,337 78 $4,730,629 63

Engineering District No. 7.

T. T. Aitken, $8; O. J. Benson, $6; J. Bridden, $40; E. Brindamour, $6.50; Broughton & McNeil, $5.35; Burns Lake Trading Co., $4.35; J. Buxton, $10; Campbell & Smith, $13.50; Canadian Express Co., 90c.; A. Chisholm, $62.15; N. M. Clarke, $16.95; G. Culp, $72.10; C. L. Dimock, $19.50; A. Eastment, $20.60; S. A. Eby, $12.30; Falconer & Armstrong, $13; H. Fotherby, $12.75; J. H. Gaines, $105; F. A. Gilbert, $433.10; J. Goold, $4.95; Graham Island Spruce & Cedar Co., Ltd., $69.17; G.T.P. Coast Steamship Co., Ltd., $14.40; G.T.P. Railway Co., $287.73; F. S. Hart, $60; J. L. Hatch, $31.70; J. W. Henkel, $105; Howe & McNulty, $394; E. Humphrey, $25; P. T. Humphrey, $30; C. E. Imeson & Co., $183.10; R. R. Jeffrey, $157.97; A. Jenkins, $34.50; C. H. Jones & Son, Ltd., $130.56; F. R. Keefe, $181.44; H. LeDuke, $10; G. Little Lumber Co., $5.40; J. Mackay, $578.44; J. Martin, $31.85; P. O. Massari, $103.40; W. Mitchel, $163.20; McGettigan Bros., $33.25; A. B. McInnes, $49.25; J. McKeand, $3.75; J. A. McLean, $4.50; W. McNeil, $4; M. F. Nourse, $7; Omineca Hotel, $38.65; Pacific Cartage, Ltd., $8.66; C. Parker, $24; R. Peterson, $15; Pioneer Lumber Co., $134.32; R. D. Prosser, $10.20; R. S. Sargent, Ltd., $203.04; L. Schorn, $9.10; E. Severson, $263.70; I. L. Shaw, $15; I. G. Short, $19.90; D. Sievert, $39.45; Stearns Hardware Co., $170.34; F. Stork, $279.55; Telkwa Transfer, $5; A. Thorson, $6.50; B L. Tingley, $63.75; G. D. Tite, $62.85; D. Tuft, $20.65; W. Waldorf, $1; F. Watson, $44.89; pay-lists, labour and team-work, $29,015.71

Total, Engineering District No. 7 ..... 34,016 87

Engineering District No. 8.

A. P. Anderson, $7.68; E. W. Anderson, $1; W. Blair, $6.50; B.C. Express Co., $116.60; W. Bunting, $3.75; Caine & Brawn, $1,375; Canadian National Railways, 60c.; J. H. Ellis, $10; Gayer & Connelly, $33.64; G.T.P. Railway Co., $75.31; P. Greenwood, $96.50; J. Guay, $80; G. H. Harvey, $15.85; Imperial Oil, Ltd., $898.48; Ingham Bros., $2.05; C. R. Johnson, $5; J. Johnson, $6.25; W. Johnson, $26.75; J. M. Johnston, $39.30; G. Keen, $18; Kline & MacKeen, $16.98; Leith Bros., $28.98; G. Little Lumber Yards, $156.18; J. W. Miers, $117; T. Mitchell, $40; H. E. McClelland, $2; I. McEwen, $4; R. C. McCorkell, $198.87; E. C. McGeachy, $33; Northern Construction Co., Ltd., $6,447.54; Northern Hardware Co., $11.40; O. Ogle, $9.35; G. B. Pick, $8.80; Porter Hay & Grain Co., $63.62; Rush Transfer & Storage Co., $3; E. L. Thompson, $30.96; S. V. Tittemore, $3.50; P. Trainor, $49.40; T. Turner, $19; Webster, Black & Co., $181.44; G. B. Williams, $13.15; transfers from Vote 251, $4,831.51; pay-lists, labour and team-work, $18,785.37

Total, Engineering District No. 8 ..... 33,873 31

Engineering District No. 9.

E. H. Allcock, $60; R. Barlow, $13; G. Beloud, $23.75; A. Boyd, $28.65; S. S. Boyd, $15; W. Boyd, $3; Bridge Creek Cattle Ranch, $9; Canadian Explosives, Ltd., $64.85; Canadian Fairbanks-Morse Co., Ltd., $37.50; Cowan Supply Co., $55.75; S. Dalgleish, $12; G. M. Deaver, $6; E. Dougherty, $163.36; R. Duclos, $16; M. Dumond, $84.07; J. A. Fraser, Ltd., $10.05; R. Fraser, $94.62; Fraser & MacKenzie, 80c.; E. J. Haller, $53; Highland Ranch, $2.85; Hurley & Prosser, $110.95; Imperial Oil, Ltd., $374.75; Inland Express Co., $3.75; D. Jimmie, $122.50; Johnston Bros., $6.75; F. C. Lane, $80; J. A. Lazzerin, $58.50; C. Lodge, $5; O. Macdougall, $20; F. Michel, $21.90; R. A. Mitchell, $14.25; Northern Construction Co., Ltd., $74.10; G. M. Olson, $3.50; P.G.E. Railway, $2.32; C. J. Payne, $4; C. A. Phair, $23.50; Porter Hay & Grain Co., $194; W. W.

Carried forward $553,227 96 $4,730,629 63

SERVICE.		Expended.
CAPITAL ACCOUNT—*Continued.*		
(STATUTORY EXPENDITURES)—*Continued.*		
"HIGHWAY LOAN ACT, 1920"—*Continued.*		
TRUNK AND MAIN ROADS—*Continued.*		
Engineering District No. 9—Continued.		
Brought forward	$553,227 96	$4,730,629 63
Purdy, $28; W. Ritchie, $47.60; J. Rush, $43.80; J. Shepherd, $906.12; H. H. Spencer, $44.75; Williams Lake Hotel, $25.50; P. Zschedrich, $6; pay-lists, labour and team-work, $12,565.56		
Total, Engineering District No. 9	15,540 35	
General Engineering.		
Assistant Engineer, D. W. Johnston, salary $192		
Draughtsman, R. G. Rice, salary $267.85		
Miscellaneous:		
Victoria Auto Livery Co., $20.35	$ 480 20	
Total, General Engineering	480 20	
Total expenditure, "Highway Loan Act, 1920"		569,248 51
"UNIVERSITY LOAN ACT, 1920."		
B.C. University.		
Beaver Interurban Auto Transfer, $34.80; B.C.E.R. Co., Ltd., $5.51; B.C. Equipment Co., Ltd., $63; Canadian Junk Co., $15; Clarke & Stuart Co., Ltd., $25.17; Canadian Explosives, Ltd., $2,650.80; Canadian Fairbanks-Morse Co., Ltd., $186.35; Drake Street Welding Co., $27.50; Duclos Bros., $3.84; Dunsmuir Drive Yourself Auto Livery, Ltd., $10.25; Eburne Gravel Co., $8.40; Economy Meat Co., Ltd., $1,039.78; Evans, Coleman & Evans, Ltd., $9.75; False Creek Lumber Co., Ltd., $309.93; Giant Powder Co. of Canada, Ltd., $4,669.08; J. Hanbury & Co., Ltd., $28.44; Imperial Oil, Ltd., $126.59; T. J. Kearney & Co., $22; Kelly, Douglas & Co., Ltd., $988.27; King's Printer, $8.90; Main Transfer Co., $82; W. H. Malkin & Co., Ltd., $698.58; Merchants Cartage Co., $12; W. McArthur, $3; N. McConnell, $55.50; D. McDonald, $5.25; McLennan, McFeely & Co., Ltd., $101.36; S. N. McLeod, $136.02; National Drug & Chemical Co. of Canada, Ltd., $101.68; Corporation of Point Grey, $89; Point Grey Wood & Coal Co., $119.10; J. Phillips & Co., $660.62; Schaake & Co., Ltd., $2.06; Simmons, Ltd., $6.86; Twin City Transfer, $7; Vancouver Oyster & Fish Co., $22.12; Wood, Vallance & Leggat, Ltd., $1,702.96; Women's Bakery 90c.; pay-lists, labour and team-work $84,227.12	$ 96,016 74	
Total expenditure, "University Loan Act, 1920"		96,016 74
"PACIFIC GREAT EASTERN CONSTRUCTION LOAN ACT, 1920."		
Pacific Great Eastern Railway Co.: Loan		3,974,668 40
"PACIFIC GREAT EASTERN NOTE PAYMENT LOAN ACT, 1920."		
Pacific Great Eastern Railway Co.: Loan		4,800,000 00
Total, Capital Expenditures (Statutory)		$14,170,563 28

APPENDIX A.

PROVINCIAL

BALANCE-SHEET AS

ASSETS.

ACCOUNTS RECEIVABLE		$ 3,671 91
UNEXPIRED INSURANCE		3,427 93
STOCK ON HAND PER INVENTORY		450,359 97
FURNITURE, FIXTURES, AND EQUIPMENT, *LESS* DEPRECIATION		3 00
		$ 457,462 81

TRADING ACCOUNT, 1ST APRIL,

TO STOCK ON HAND, 1ST APRIL, 1920		$ 133,060 05
„ MERCHANDISE PURCHASED		584,548 64
„ EXPENSES:		
Salaries	$28,829 59	
Rent	9,975 00	
Storage	143 75	
Insurance	4,127 38	
Cartage and Handling	334 30	
Office Expenses and Sundries	5,057 10	
		48,467 12
		$ 766,075 81
„ BALANCE: NET PROFIT		142,526 80
		$ 908,602 61
„ CONSOLIDATED REVENUE FUND		$ 222,526 80
		$ 222,526 80

LIQUOR VENDORS.

AT 31ST MARCH, 1921.

LIABILITIES.

PROVINCIAL TREASURY DEPARTMENT, "CAPITAL ACCOUNT,"	$	120,000 00
„ „ "CURRENT ACCOUNT"		334,641 47
CANADIAN BANK OF COMMERCE		46 93
ACCOUNTS PAYABLE		2,774 41
	$	457,462 81

1920, TO 31ST MARCH, 1921.

BY SALES	$	458,162 83
„ PREMIUM ON UNITED STATES CURRENCY		79 81
„ STOCK ON HAND PER INVENTORY		450,359 97
	$	908,602 61
BY BALANCE: NET PROFIT	$	142,526 80
„ RESERVE FUND		80,000 00
	$	222,526 80

APPENDIX B.

INDUSTRIAL

(CREATED BY SECTION 7 OF THE

BALANCE-SHEET AS

ASSETS.

CASH IN TREASURY		$ 19,088 03
LOANS:		
Loans granted	$995,830 74	
Less amounts due to borrowers	44,496 02	
		951,334 72
OVERDUE INTEREST		2,291 22
		$ 972,713 97

SCHEDULE OF LOANS

AUTO BODY BUILDERS	$ 1,000 00
ACME BOX COMPANY	6,000 00
ALBERNI SHINGLE CO., LTD.	11,000 00
AETNA SAW WORKS, LTD.	15,000 00
ARNOT & SONS	2,500 00
BENNETT & SON	4,000 00
BEATSON, FRANK	375 00
BARCLAY SOUND FISHERIES, LTD.	4,560 51
B.C. YACHT & BOAT BUILDERS CO., LTD.	15,000 00
CANADIAN WESTERN WOODWORKERS, LTD.	15,000 00
CANADA WESTERN CORDAGE CO., LTD.	200,000 00
CUT-TO-FIT BUILDINGS CO., LTD.	50,000 00
CERAMIC INDUSTRIES, LTD.	15,285 00
COOTE & REYNOLDS	10,000 00
CANADA WESTERN WOOLLEN MILLS, LTD.	30,000 00
CANADA DOLLS, LTD.	7,500 00
DU CHATELET, BRIN	500 00
ECKLEY, ALFRED AND HAROLD	7,700 00
ELECTRICAL MANUFACTURING CO.	5,700 00
ERSKINE & MAY	6,500 00
FINLAYSON, H. L.	2,000 00
GEORGE, P. E.	2,000 00
GREAT WEST MANUFACTURING CO.	15,000 00
HIKER MANUFACTURING CO., LTD.	8,000 00
HEATON MACHINE WORKS, LTD.	5,000 00
HENSON & DYSON	4,000 00
HENSHALL FISH PRODUCTS, LTD.	3,000 00
JORGANSON & ANTHONY	500 00
JOHNSON, H. L.	300 00
KERR MANUFACTURING CO.	3,666 68
KELLY-JOHNSON LUMBER CO., LTD.	2,000 00
LAIDLAW SHINGLE CO., LTD.	4,900 00
MURRAYVILLE, B.C., TOY CO.	4,000 00
MADDAUGH & HUGGARD	26,858 92

DEVELOPMENT FUND.

"DEPARTMENT OF INDUSTRIES ACT, 1919.")

AT 31ST MARCH, 1921.

LIABILITIES.

PROVINCIAL TREASURY:		
Advances	$965,000 00	
Interest earned	7,713 97	
		$ 972,713 97
		$ 972,713 97

GRANTED, ($995,830.74).

MERRITT INDUSTRIES, LTD.	$ 7,500 00
McLEOD & MOVITZ	2,500 00
N. M. & R. FISH CO.	25,000 00
ORDANO, FRANK AND DOMINGO	1,000 00
PEERLESS PRODUCTS, LTD.	875 00
PACIFIC CRATING & MANUFACTURING CO.	10,000 00
PACIFIC GUANO CO., LTD.	5,000 00
QUESNEL TIMBER & TRADING CO., LTD.	15,500 00
RETURNED SOLDIERS' CO-OPERATIVE SYNDICATE	5,990 50
RAEMAEKERS & STEPHEN BROTHERS	1,500 00
SUNSET WOODWORKERS	2,619 13
SIDNEY ROOFING AND PAPER CO., LTD.	100,000 00
STETTLER CIGAR CO., LTD.	25,000 00
STANDARD SHOE MANUFACTURING CO., LTD.	15,000 00
SHORE, T. J., BOLT & NUT MANUFACTURING CO., LTD.	45,000 00
SAN JUAN BOX CO., LTD.	25,000 00
THOMPSON, H., *ET AL.*	12,000 00
TACEY, J. R., & SON	15,000 00
SCHAAKE CO., LTD.	50,000 00
VINALL, FRANK & SONS	1,000 00
VANCOUVER PIPE & FOUNDRY CO., LTD.	30,000 00
VANCOUVER KNITTING CO., LTD.	18,000 00
VIVIAN GAS ENGINE WORKS	20,000 00
VANCOUVER ISLAND FISH & COLD STORAGE CO., LTD.	7,500 00
VETERANS PRODUCTS, LTD.	15,000 00
VICTORY ATTACHABLE RUBBER SOLES & HEELS CO.	2,000 00
VANCOUVER PICKLE CO., LTD.	5,000 00
WESTERN TOY & FURNITURE CO., LTD.	30,000 00
WAKEFIELD, E. J.	1,500 00
WONDER PUMP & ENGINE CO.	10,000 00
WHOLESALE FISH CO., LTD.	2,500 00

APPENDIX C.

CONSERVATION

(CREATED BY SECTION 287A

BALANCE-SHEET AS

ASSETS.

CASH IN TREASURY		$ 61,549 19
ADVANCES AND EXPENDITURES *RE* CONSERVATION OF WATER:		
Adams River	$ 7,482 51	
Black Mountain	242,740 51	
Erickson Water User's Committee	12,500 00	
Glenmore Irrigation District	38,547 54	
Grand Forks District	624 40	
Heffley Creek	30,000 00	
Jones, W. W.	598 55	
Naramata	69,947 77	
Peachland	33,593 88	
Penticton	25,000 00	
Rutland Drainage	7,515 98	
Scotty Creek	32,646 03	
S.E. Kelowna	89,018 98	
Vernon Irrigation District	351,865 77	
Other items	11,620 14	
		953,702 06
		$ 1,015,251 25

SUMMARY OF RECEIPTS AND DISBURSEMENTS

RECEIPTS.

TO BALANCE AT CREDIT OF FUND 31ST MARCH, 1920		$ 742 43
ADVANCES FROM PROVINCIAL TREASURY		795,000 00
REFUNDS:		
Principal	$16,500 00	
Interest	251 25	
		16,751 25
		$ 812,493 68

FUND.

OF THE "WATER ACT, 1914.")

AT 31ST MARCH, 1921.

LIABILITIES.

PROVINCIAL TREASURY:		
Advances		$ 1,015,000 00
Interest		251 25
		$ 1,015,251 25

FOR THE FISCAL YEAR ENDED 31ST MARCH, 1921.

DISBURSEMENTS.

BY ADVANCES AND EXPENDITURES *RE* CONSERVATION OF WATER:		
Adams River	$ 1,034 88	
Black Mountain	240,806 12	
Erickson	12,500 00	
Glenmore	28,560 75	
Grand Forks	418 70	
Heffley Creek	24,000 00	
Naramata	31,952 91	
Peachland	18,426 50	
Penticton	25,000 00	
Rutland Drainage	7,515 98	
Scotty Creek	28,759 20	
S.E. Kelowna	89,018 98	
Vernon Irrigation District	237,865 77	
Other items	5,084 70	
		$ 750,944 49
		$ 750,944 49
BALANCE AT CREDIT OF FUND		61,549 19
		$ 812,493 68

APPENDIX D.

RETURNED SOLDIERS'

BALANCE-SHEET AS

ASSETS.

ACCOUNTS RECEIVABLE:		
Advances on War Service Gratuities, outstanding	$ 9,403 54	
Loans for Relief, outstanding	122,628 57	
Loans on Blanket Account, outstanding	2,348 40	
Loans on Underwear Account, outstanding	254 17	
		$ 134,634 68
CASH ON HAND		40 70
		$ 134,675 38

CASH ACCOUNT *RE* GRANT AND ADVANCES UNDER

1921.

MARCH 31. TO GRANT FROM PROVINCIAL GOVERNMENT		$ 134,634 68
„ ADVANCES FROM PROVINCIAL TREASURY		60,000 00
„ REPAID ON ACCOUNT OF WAR SERVICE GRATUITIES		14,218 61
„ REPAID ON ACCOUNT OF LOANS		40,525 50
„ REPAID ON BLANKET ACCOUNT		2,860 60
„ REPAID ON UNDERWEAR ACCOUNT		1,853 74
„ INTEREST EARNED		392 63
		$ 254,485 76

AID COMMISSION.

AT 31ST MARCH, 1921.

LIABILITIES.

PROVINCIAL TREASURY:		
Grant—Vote 233, fiscal year 1920–21	$	134,634 68
ACCOUNTS PAYABLE:		
Sundry persons		40 70
	$	134,675 38

VOTE 233, FISCAL YEAR ENDED 31ST MARCH, 1921.

1921.			
MARCH 31.	BY ADVANCES ON WAR SERVICE GRATUITIES	$	6,250 79
„	LOANS FOR RELIEF		102,086 62
„	ADVANCES ON BLANKET ACCOUNT		3,600 00
„	ADVANCES ON UNDERWEAR ACCOUNT		2,107 91
„	TOTAL DISBURSEMENTS *RE* ADVANCES AND LOANS	$	114,045 32
„	ADVANCES REPAID TO PROVINCIAL TREASURY		140,399 74
„	CASH ON HAND		40 70
		$	254,485 76

APPENDIX E.

LAND SETTLE

BALANCE-SHEET AS AT

ASSETS.

CASH AND ADVANCES		$ 2,744 47
LOANS:		
Loans granted	$646,409 84	
Less amounts due to borrowers	108,308 87	538,100 97
OVERDUE INTEREST		10,180 16
ACCRUED INTEREST		10,953 35
ACCOUNTS RECEIVABLE		74,534 56
LAND PURCHASES AND DEVELOPMENT:		
Purchase price	$550,370 34	
Development costs	794,498 22	1,344,868 56
INVESTIGATIONS		7,551 67
DYKING AND DRAINAGE PROJECTS		148,038 01
OFFICE SUPPLIES, FURNITURE, AND EQUIPMENT (*LESS* DEPRECIATION)		4,827 18
QUESNEL CREAMERY		6,333 78
		$ 2,148,132 71
BALANCE:		
Deficit as at 31st December, 1919	$ 68,588 19	
Deficit for year ended 31st December, 1920	96,736 85	165,325 04
		$ 2,313,457 75

STATEMENT OF REVENUE AND EXPENDITURE

EXPENDITURE.

SALARIES	$ 19,840 62
TRAVELLING EXPENSES	5,957 58
OFFICE EXPENSES	1,323 96
GENERAL EXPENSES	1,475 52
INTEREST ON TREASURY LOANS	110,157 86
REBATES ON RETURNED SOLDIERS' LAND PURCHASES	11,000 00
DEPRECIATION: FURNITURE AND EQUIPMENT	322 20
COSTS OF INVESTIGATIONS WRITTEN OFF	2,802 49
	$ 152,880 23

MENT BOARD.

31ST DECEMBER, 1920.

LIABILITIES.

PROVINCIAL TREASURY:	
Advances	$ 2,216,108 62
ACCOUNTS PAYABLE	26,202 77
LAND-SALES RECEIPTS	71,036 36
APPRAISAL FEES (UNEARNED)	110 00
	$ 2,313,457 75

FOR YEAR ENDED 31ST DECEMBER, 1920.

REVENUE.

APPRAISAL FEES	$ 983 00
EXCHANGE, DISCOUNT AND COMMISSION, ETC.	34 31
LEGAL FEES	31 56
INTEREST	48,980 91
AGRICULTURAL CREDIT COMMISSION:	
Proportion of operating expenses	6,113 60
	$ 56,143 38
BALANCE:	
Being deficit for year carried to Balance-sheet	96,736 85
	$ 152,880 23

APPENDIX E—*Continued.*

LAND SETTLE

SEPARATE

AGRICULTURAL

BALANCE-SHEET AS AT

ASSETS.

CASH IN BANK		$ 42,219 96
LOANS		609,542 42
MORTGAGES FORECLOSED		4,081 01
OVERDUE INTEREST		11,226 47
ACCRUED INTEREST		9,695 63
SINKING FUNDS		174,392 72
FURNITURE AND EQUIPMENT		450 00
DISCOUNT ON DEBENTURES		124,277 34
		$ 975,885 55
BALANCE:		
Deficit as at 31st December, 1919	$ 55,006 74	
Deficit for year ended 31st December, 1920	9,915 81	
		64,922 55
		$ 1,040,808 10

STATEMENT OF REVENUE AND EXPENDITURE

EXPENDITURE.

LAND SETTLEMENT BOARD—PROPORTION OF OPERATING EXPENSES	$ 6,113 60
INTEREST ON DEBENTURES	45,000 00
DISCOUNT, PREMIUM, AND EXCHANGE	5,102 25
LEGAL EXPENSES, TRUSTEE FEES	200 00
POSTAGE AND STATIONERY	167 10
DEPRECIATION—FURNITURE AND EQUIPMENT	50 00
DISCOUNT ON DEBENTURES—1/25 WRITTEN OFF	6,112 00
	$ 62,744 95

MENT BOARD.

ACCOUNTS OF THE

CREDIT COMMISSION.

31ST DECEMBER, 1920.

LIABILITIES.

DEBENTURES, DUE 1ST MAY, 1941	$ 1,000,000 00
ACCOUNTS PAYABLE	32,390 60
ACCRUED INTEREST ON DEBENTURES	7,500 00
APPRAISAL FEES (UNEARNED)	17 50
COUPONS UNPAID	900 00
	$ 1,040,808 10

FOR YEAR ENDED 31ST DECEMBER, 1920.

REVENUE.

APPRAISAL FEES	$ 17 00
LEGAL FEES	383 95
INTEREST	51,898 19
DISCOUNT ON PURCHASE OF VICTORY LOAN BONDS	530 00
	$ 52,829 14
BALANCE:	
Being deficit for year carried to Balance-sheet	9,915 81
	$ 62,744 95

PROVINCE OF BRITISH COLUMBIA. Appendix F.

COMPARATIVE STATEMENT OF REVENUE FOR THE FISCAL YEARS 1916-17 TO 1920-21, INCLUSIVE.

REVENUE.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.
DEPARTMENT OF AGRICULTURE.					
Frondeg Farm		$ 1,283 63	$ 9,041 15		
Horticultural Inspection—Fees and Licences	$18,220 79	17,829 56	26,335 34	$16,471 39	$28,994 93
Seed Grain Advances—Refunds	3,025 00	4,763 89	13,410 62	6,377 88	1,620 21
Miscellaneous Receipts	7,626 50	5,826 03	9,950 07	10,157 57	8,552 54
Total	$28,872 29	$29,703 11	$58,737 18	$33,006 84	$39,167 68
DEPARTMENT OF THE ATTORNEY-GENERAL.					
Court Fines and Fees	$ 21,968 12	$ 28,065 52	$ 39,590 19	$ 41,869 84	$ 75,181 32
Dog Licences		1,210 00	1,715 00	1,581 00	1,382 00
Fur Licences					3,225 00
Game Licences	66,097 50	65,487 50	82,552 50	121,002 00	134,160 84
Insurance Act—Licences, Taxes, and Fees	76,581 17	74,346 39	73,619 68	90,692 06	95,621 77
Joint-stock Companies, etc.—Registration Fees	44,983 50	52,199 00	56,315 56	94,984 95	88,979 19
Keep of Prisoners—Reimbursement	11,338 95	9,933 69	11,204 55	7,361 77	19,568 80
Land Registry Fees	196,663 90	166,644 48	189,162 78	353,453 64	412,575 06
Law Stamps	65,949 02	55,615 35	57,959 67	66,925 22	73,591 73
Motor-traffic Regulation Act—Fees	134,361 50	193,256 50	246,137 50	354,222 50	582,082 24
Moving Pictures Act—Fees	18,429 86	17,280 57	14,562 20	16,995 43	16,671 00
Prohibition Act—Profit on Liquor sold		17,199 93	97,011 85	653,281 62	222,526 80
Sheriff's Fees			6,100 99	11,782 98	19,254 78
Trade Licences	67,386 87	20,535 25	20,342 50	28,322 50	29,481 25
Miscellaneous Receipts	4,165 40	5,274 61	1,947 07	8,600 34	18,901 38
Total	$707,925 79	$707,098 79	$898,222 04	$1,851,075 85	$1,793,203 16
DEPARTMENT OF EDUCATION.					
Teachers' Examinations and Certificates	$1,725 35	$3,105 00	$2,695 00	$3,530 45	$ 4,115 55
Text Books sold	1,229 82	2,068 58	1,318 81	1,462 78	1,614 72
Technical Schools (Dominion Grant)					29,133 86
Miscellaneous	1,898 75	316 70	30 00		697 00
Total	$4,853 92	$5,490 28	$4,043 81	$4,993 23	$35,561 13
DEPARTMENT OF FINANCE.					
Dominion of Canada—					
Annual Interest	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06
" Subsidy	180,000 00	180,000 00	180,000 00	180,000 00	180,000 00
" Grant per capita	313,984 00	313,984 00	313,984 00	313,984 00	313,984 00
" Grant for Lands conveyed	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00
" Grant, "B.N.A. Act, 1907"	100,000 00	25,000 00			
	$ 723,135 06	$ 648,135 06	$ 623,135 06	$ 623,135 06	$ 623,135 06
Amusements Tickets Tax		124,497 97	221,488 08	320,472 92	346,879 26
Coal and Coke Tax	194,536 62	191,928 33	196,657 21	195,054 92	216,430 73
Income Tax	296,801 75	670,638 25	1,506,668 92	2,012,671 47	2,005,973 09
Interest—					
"Dyking Assessments Adjustment Act"	19,080 07	19,080 07	19,080 07	19,080 07	19,080 07
Sinking Fund Investments	106,825 33	126,961 02	175,457 26	218,964 21	220,295 31
Miscellaneous	75,803 66	123,452 40	290,332 96	500,851 26	380,179 20
Land Taxes—					
Real Property	532,106 85	1,013,983 47	991,203 35	1,149,212 27	1,046,343 30
Wild Land, Coal and Timber Lands	521,325 26	690,536 30	792,416 29	1,132,440 99	861,811 72
Mineral Tax	287,257 59	293,576 80	229,106 47	158,287 88	119,342 00
Personal Property Tax	291,412 83	521,206 19	800,415 07	954,336 64	909,603 13
Poll Tax		329,530 00	282,685 00	255,990 00	262,580 00
Probate Fees	72,695 47	49,479 89	47,534 22	77,342 58	64,527 36
Rents—					
B.C. House, London, England	17,692 43	27,470 27	37,705 87	43,128 66	41,075 97
Miscellaneous Rents	45 00	127 67	186 00	90 50	261 80
Revenue Service Refunds	632 62	664 19	11,800 27	19,768 92	9,303 16
Rural District School Taxes			12,916 25	230,874 12	213,339 93
Succession Duties	277,702 73	241,362 36	271,777 45	374,320 83	342,259 22
Unworked Crown-granted Mineral Claims—Taxes	37,903 97	37,583 32	65,732 00	58,443 96	46,892 72
Miscellaneous Receipts	33,152 32	24,587 19	33,532 89	70,726 00	902,514 49
Total	$3,488,109 56	$5,134,800 75	$6,609,830 69	$8,415,193 26	$8,631,827 52

COMPARATIVE STATEMENT OF REVENUE, ETC.—*Continued.*

REVENUE.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.
DEPARTMENT OF FISHERIES.					
Fishing and Cannery Licences, etc.	$ 38,563 50	$40,998 95	$37,037 80	$35,814 46	$35,326 05
Total	$ 38,563 50	$40,998 95	$37,037 80	$35,814 46	$35,326 05
DEPARTMENT OF LABOUR.					
Dominion of Canada, subvention, etc.	.....	.....	$3,082 99	$24,548 91	$23,102 30
Total	.....	.....	$3,082 99	$24,548 91	$23,102 30
DEPARTMENT OF LANDS.					
Grazing Rentals, Leases and Fees	.....	.....	.....	$ 10,410 32	$ 15,944 67
Land Revenue, Sundry	$ 79,919 19	$ 81,246 51	$ 92,227 73	103,150 33	131,594 44
Land Sales	218,453 47	395,972 49	112,550 84	293,050 36	391,448 66
Log Scaling Fees	40,897 85	60,263 52	58,830 09	64,226 86	.....
Survey Fees and Sale of Maps	10,100 56	7,168 70	5,268 83	7,553 31	24,071 18
Timber Leases	75,990 11	78,564 62	77,361 00	82,000 28	78,698 73
Timber Licences	1,192,176 31	1,063,510 92	1,531,896 47	1,273,422 22	1,929,542 17
Timber Sales	85,357 26	132,538 68	169,563 42	236,839 05	290,236 85
Timber Royalties	567,292 85	733,567 96	744,898 39	798,511 62	981,557 80
Water Rentals and Recording Fees	33,971 73	32,569 10	21,392 39	49,825 63	97,269 66
Miscellaneous Receipts	37,229 00	18,895 00	17,626 53	22,656 20	24,776 05
Total	$2,341,388 33	$2,604,297 50	$2,831,615 69	$2,941,646 18	$3,965,140 21
LEGISLATION.					
Private Bills Fees	$2,434 00	$633 69	$3,365 00	$2,910 00	$2,655 00
Total	$2,434 00	$633 69	$3,365 00	$2,910 00	$2,655 00
DEPARTMENT OF MINES.					
Bureau of Mines	$ 870 50	$ 1,250 50	$ 989 15	$ 1,257 44	$ 1,146 25
Free Miners' Certificates	48,875 25	52,309 60	50,985 73	58,659 55	63,964 10
Miners' Examinations and Certificates	1,037 80	1,326 50	1,227 00	1,003 00	1,324 00
Mining Receipts, General	62,315 61	66,897 30	74,985 13	75,378 75	104,272 91
Miscellaneous Receipts	.....	.....	839 25	2,175 00	.....
Total	$113,099 16	$121,783 90	$129,026 26	$138,473 74	$170,707 26
DEPARTMENT OF THE PROVINCIAL SECRETARY.					
Colony Farm	$ 9,842 76	$ 29,622 71	$ 5,733 60	$ 11,109 56	$ 8,422 10
Dominion Grant, Venereal Disease	.....	.....	.....	.....	14,628 19
King's Printer	39,695 36	37,587 42	170,561 21	168,611 42	239,824 45
Marriage Licences	15,020 00	14,355 00	13,675 00	20,635 00	22,725 00
Mental Hospitals	42,124 07	48,859 25	67,794 78	86,928 10	88,352 15
Notaries Public and Commissioners' Fees	1,910 00	1,560 15	2,185 25	4,084 40	3,720 00
Provincial Home, Kamloops	584 80	11,632 05	6,819 42	7,422 19	11,949 93
Vital Statistics, etc.	4,236 85	4,531 83	5,394 25	4,396 02	5,408 21
Voters' Lists sold	639 66	1,611 34	5,085 52	.....	.....
Miscellaneous Receipts	2,853 15	1,647 50	1,729 61	3,017 53	3,233 05
Total	$116,906 65	$151,407 25	$278,978 64	$306,204 22	$398,263 08
DEPARTMENT OF PUBLIC WORKS.					
Boiler Inspection and Examination Fees	$28,309 36	$32,411 36	$29,123 83	$33,420 85	$38,213 54
Electrical Energy Inspection	.....	.....	.....	15,024 25	2,379 50
Ferry Tolls	.....	.....	.....	8,513 30	16,119 25
Government Property sold	4,156 54	8,975 06	8,223 34	4,950 08	2,624 40
Wharfage and Dock Dues	5,629 26	4,466 25	4,262 82	3,793 20	3,266 30
Miscellaneous Receipts	140 28	391 70	1,477 06	1,992 06	11,125 39
Total	$38,235 44	$46,244 37	$43,087 05	$67,693 74	$73,728 38
DEPARTMENT OF RAILWAYS.					
New Westminster Bridge—Tolls	$26,394 99	$40,387 43	$ 32,358 46	$35,775 85	$41,152 59
Miscellaneous Receipts	.....	.....	1,893 60	4,266 47	9,429 96
Total	$26,394 99	$40,387 43	$ 34,252 06	$ 40,042 32	$50,582 55
Total Revenue	$6,906,783 63	$8,822,846 02	$10,931,279 21	$13,861,602 75	$15,219,264 32

APPENDIX G.

PROVINCE OF BRITISH COLUMBIA.

COMPARATIVE STATEMENT OF EXPENDITURE FOR THE FISCAL YEARS 1918–19 TO 1920–21, INCLUSIVE.

SERVICE.	1918–19.	1919–20.	1920–21.
CURRENT ACCOUNT.			
PUBLIC DEBT.			
Interest	$ 1,174,435 93	$ 1,428,388 76	$ 2,120,022 05
Premium and Exchange	4,200 33	31,768 69	93,575 90
Discount and Commission	235,089 11	22,431 89	8,541 17
Total	$ 1,413,725 37	$ 1,482,589 34	$ 2,222,139 12
LEGISLATION.			
Members' Indemnities	$ 82,334 50	$ 81,781 00	$ 101,882 50
Salaries	9,394 65	10,336 92	8,725 37
Expenses	9,562 03	19,007 44	14,160 40
Total	$ 101,291 18	$ 111,125 36	$ 124,768 27
PREMIER'S OFFICE.			
Salaries	$ 10,410 00	$ 10,547 50	$ 10,513 00
Expenses	2,174 09	1,118 15	2,120 59
Total	$ 12,584 09	$ 11,665 65	$ 12,633 59
DEPARTMENT OF AGRICULTURE.			
Minister's Office	$ 9,104 13	$ 10,941 87	$ 11,245 00
General Office	32,096 75	44,639 43	43,584 51
Horticultural Branch	48,199 85	57,399 91	98,099 37
Live Stock Branch	38,979 50	36,734 92	56,647 07
Miscellaneous and Statutory	100,417 96	114,504 02	123,290 76
Total	$ 228,798 19	$ 264,220 15	$ 332,866 71
DEPARTMENT OF THE ATTORNEY-GENERAL.			
Attorney-General's Office	$ 9,061 04	$ 9,761 92	$ 12,414 95
General Office	25,836 38	31,356 22	34,531 48
Joint-stock Companies and Insurance Branch	11,858 74	14,255 72	19,582 91
Municipal Branch	5,660 96	6,258 23	7,085 35
Censor of Moving Pictures	13,618 48	14,653 61	14,057 86
Administration of "Prohibition Act"	59,927 09	17,877 05	48,456 70
Sheriffs' Offices	13,727 03	21,282 02	26,948 53
Provincial Library and Archives	25,592 21	*	*
Land Registry Offices	136,307 92	171,601 09	208,094 93
Supreme and County Courts	68,394 34	76,427 14	84,216 71
Provincial Police	217,576 61	323,495 58	434,971 06
County Gaols	61,590 39	72,910 67	85,574 42
Industrial Schools	55,087 52	68,715 44	71,898 41
Game Protection	35,435 94	27,701 08	44,776 85
Mothers' Pensions	.....	.....	273,574 50
Miscellaneous and Statutory	126,617 05	182,912 27	198,470 21
Total	$ 866,291 70	$ 1,039,208 04	$ 1,564,654 87
DEPARTMENT OF EDUCATION.			
General Office	$ 19,203 24	$ 20,073 43	$ 24,362 36
Free Text-book Branch	64,764 89	59,815 83	86,384 38
Agricultural Education	9,430 00	26,015 38	15,207 47
Industrial Education	13,124 54	11,321 23	68,946 21
Inspection of Schools	39,621 32	53,716 73	63,089 43
Normal Schools	53,726 76	67,596 47	74,279 17
Deaf, Dumb, and Blind	13,499 26	16,119 61	25,030 94
Per capita Grants	978,139 25	1,043,388 61	1,123,708 70
Teachers' Salaries	372,266 20	421,367 80	502,850 55
School Buildings: Erection and repairs, etc.	108,624 40	111,245 49	378,195 31
University of British Columbia	.....	.....	†420,000 00
Miscellaneous and Statutory	159,223 05	396,714 07	294,889 83
Total	$ 1,831,622 91	$ 2,227,374 65	$ 3,076,944 35
DEPARTMENT OF FINANCE.			
Minister's Office	$ 10,657 77	$ 10,738 61	$ 12,383 59
General Office	23,133 87	26,812 73	34,435 28
Inspector of Trust Companies, Probate and Succession Duties	10,876 88	15,413 57	11,194 06
Carried forward	$ 44,668 52	$ 52,964 91	$ 58,012 93

* Now Department of the Provincial Secretary.
† Formerly Department of the Provincial Secretary.

COMPARATIVE STATEMENT OF EXPENDITURE, ETC.—*Continued.*

SERVICE.	1918–19.	1919–20.	1920–21.
CURRENT ACCOUNT—*Continued.*			
DEPARTMENT OF FINANCE—*Continued.*			
Brought forward	$ 44,668 52	$ 52,964 91	$ 58,012 93
Controlling and Audit Branch	41,972 75	48,532 25	52,899 63
Surveyor of Taxes	85,462 61	45,663 68	59,477 73
Bureau of Information	2,469 53	8,929 67	11,495 26
Agent-General's Office, London, Eng.	76,580 18	75,846 88	79,011 19
Government Agents and Assessors, etc.	360,050 24	453,257 77	502,446 29
Miscellaneous and Statutory	110,916 78	133,761 25	65,595 52
Total	$ 722,120 61	$ 818,956 41	$ 828,938 55
DEPARTMENT OF FISHERIES.			
Salaries	$ 8,166 56	$ 9,570 32	$ 9,172 10
Expenses	5,892 65	7,157 96	6,500 40
Total	$ 14,059 21	$ 16,728 28	$ 15,672 50
DEPARTMENT OF INDUSTRIES.			
Salaries	.....	$ 3,535 48	$ 7,242 33
Expenses	.....	3,889 42	9,233 83
Total	.....	$ 7,424 90	$ 16,476 16
DEPARTMENT OF LABOUR.			
General Office	$ 10,684 68	$ 11,466 24	$ 11,226 66
Minimum Wage Board	1,196 37	7,048 23	4,751 28
Employment Bureaus	8,155 50	51,912 78	68,949 05
Miscellaneous	.....	.....	90,971 25
Total	$ 20,036 55	$ 70,427 25	$ 175,898 24
DEPARTMENT OF LANDS.			
Minister's Office	$ 11,722 71	$ 12,486 94	$ 13,039 33
General Office, Salaries	81,789 20	113,528 19	32,329 10
Lands Branch, Salaries	7,484 00	9,607 29	44,565 55
Forest Branch, Salaries	131,632 18	173,955 66	182,862 09
Water Branch, Salaries	29,843 04	41,997 17	86,096 69
Survey Branch, Salaries	42,508 48	58,197 97	64,636 30
Temporary Assistance, Salaries	9,658 65	7,593 82	18,782 47
Expenses: General Office and Branches	89,317 87	132,818 63	173,271 28
Forest Protection Fund	134,792 99	117,889 35	189,816 80
Surveys: Land, Water, and Topographical	90,442 09	190,470 33	316,101 14
Miscellaneous and Statutory	98,431 25	116,199 74	186,450 39
Total	$ 727,622 46	$ 974,745 09	$ 1,307,951 14
DEPARTMENT OF MINES.			
Minister's Office	$ 9,217 20	$ 9,861 25	$ 10,388 27
General Office	16,480 89	17,403 42	20,049 30
Mines Inspection Branch	31,480 55	34,669 63	37,108 24
Bureau of Mines	12,872 52	13,464 96	14,966 41
Mines-rescue and Training Stations	12,165 95	14,060 99	16,034 56
Mines Development and Mineral Survey	117,329 13	144,814 96	174,732 29
Miscellaneous and Statutory	3,793 75	13,253 00	26,304 39
Total	$ 203,339 99	$ 247,528 21	$ 299,583 46
DEPARTMENT OF THE PROVINCIAL SECRETARY.			
Minister's Office	$ 8,583 03	$ 9,355 68	$ 9,605 28
General Office	12,294 19	12,313 95	13,822 07
Provincial Board of Health	92,854 42	58,482 25	73,223 77
Provincial Library and Archives	*	25,398 16	20,726 68
Provincial Museum	7,447 62	8,331 35	8,740 06
Mental Hospitals	450,756 12	553,548 56	643,204 48
Provincial Home, Kamloops	33,019 53	38,266 01	44,474 66
Grants to Hospitals and Charities	538,765 94	499,475 06	527,765 77
King's Printer	144,527 82	180,465 58	253,662 73
Civil Service Commission	5,084 52	12,813 25	11,341 66
Grants for Patriotic Purposes, etc.	132,840 47	56,849 77	171,505 65
Superannuation	46,073 50	49,140 30	57,507 56
University of British Columbia	271,578 92	388,000 00	†
Miscellaneous	119,745 33	101,280 18	380,433 23
Total	$ 1,863,571 41	$ 1,993,720 10	$ 2,216,013 60

* Formerly Department of the Attorney-General.
† Now Department of Education.

COMPARATIVE STATEMENT OF EXPENDITURE, ETC.—*Continued.*

SERVICE.	1918–19.	1919–20.	1920–21.
CURRENT ACCOUNT—*Continued.*			
DEPARTMENT OF PUBLIC WORKS.			
Minister's Office	$ 9,823 87	$ 10,867 45	$ 10,676 68
General Office	42,735 06	54,617 86	64,590 53
District Engineers	38,836 25	51,882 28	61,402 43
Steam-boiler Inspection	46,936 47	49,319 47	54,715 74
"Electrical Energy Inspection Act"	5,734 62	4,663 48	7,258 29
"Factories Act"	6,597 57	7,639 39	8,569 80
Government House and Grounds	14,968 76	26,092 12	20,790 11
Parliament Buildings and Grounds	79,063 69	127,690 77	121,128 16
Roads, Streets, Bridges, and Wharves	1,452,483 12	1,705,447 78	2,288,572 39
Steamboats, Ferries, and Bridge-tenders	152,282 27	185,272 39	201,052 56
Miscellaneous	2,400 00	.....	58,832 02
Total	$ 1,851,881 68	$ 2,223,492 99	$ 2,897,588 71
DEPARTMENT OF RAILWAYS.			
General Office	$ 13,309 58	$ 19,933 43	$ 23,794 09
New Westminster Bridge	17,489 69	58,863 02	52,467 99
Miscellaneous and Statutory	.....	.....	68,550 00
Total	$ 30,799 27	$ 78,796 45	$ 144,812 08
Total Current Account (charged to Income)	$ 9,887,744 62	$11,568,002 87	$15,236,941 35
CAPITAL ACCOUNT.			
(EXPENDITURES OUT OF INCOME.)			
Sinking Funds	$ 676,988 90	$ 951,327 37	$ 1,143,832 23
Buildings, Roads, and other Properties	615,602 44	143,133 48	1,606,267 00
Miscellaneous	931,949 93	847,808 07	1,639,650 37
Total Capital Account (charged to Income)	$ 2,224,541 27	$ 1,942,268 92	$ 4,389,749 60
Total Expenditures (charged to Income)	$12,112,285 89	$13,510,271 79	$19,626,690 95

PROVINCE OF

	1915 April to March.	1915-1916 1st April to 31st March.	1916-1917 1st April to 31st March.	1917-1918 1st April to 31st March.
I.—Public D	075 03	$779,262 53	$827,774 30	$942,467 33
Interes				
*Sinki	....	.....	.....	.....
	.....	.....	.....	.....
	,577 22	8,577 22	4,288 61	.....
	,133 65	12,903 97	6,169 20	.....
	,219 36	99,219 36	....	.....
	,619 92	82,141 55	41,096 59	52,048 14
Sinkir	.....	.....	145,500 00	291,000 00
	.....	.....	237 54	11,661 24
	.....	.....	254,715 00	254,715 00
	.....	.....	415 71	7,528 28
	.....	.....	....	162,757 64
	.. ....	.....	.....	438 58
	,892 50	.....	.....	.....
	,489 94	383 90	94 57	634 05
Premi	,566 58	428,576 01	107,155 82	45,754 29
Disco	,565 28	.....	.....	....
Incide				
† Red	.....	.....	.....	169,552 73
† Red	.....	.....	.....	.....
† Red	....	.....	.....	.....
† Red	.....	.....	.....	.....
† D	.....	.....	.....	.....
† D	.....	.....	.. ..	.....
† D	.....	.....	.....	.....
II.—Civil Gov	,731 31	1,555,562 26	1,477,611 45	1,336,673 52
III.—Administ	,392 50	62,600 54	59,201 52	48,597 70
IV.—Legislatic	,328 99	96,877 54	206,281 02	116,423 73
V.—Public In	,592 99	51,350 65	52,000 31	40,882 30
Printi	,241 84	280,207 24	286,455 30	327,318 91
Hospi	,093 71	3,987 09	3,372 70	1,536 75
Muse	,375 86	16,586 52	21,147 31	22,536 14
Provi	,166 97	4,949 84	10,160 68	2,749 52
Burea	,522 94	2,764 78	4,936 32	7,035 61
Mines	,266 28	23,726 33	17,528 80	11,736 73
Fishe	2,196 92	14,970 47	12,445 55	13,932 32
Indus	,862 99	4,696 87	4,484 44	6,980 62
Indus				
VI.—Hospitals	,563 71	355,440 67	486,590 67	407,439 24
VII.—Administ	,082 58	249,392 20	188,961 79	158,555 12
VIII.—Educatio	0,200 22	1,325,308 24	1,331,413 43	1,397,496 98
IX.—Transpor	7,785 22	38,850 86	32,374 38	35,060 04
X.—Departm	.....	.....	124,099 25	138,870 05
XI.—Revenue	0,369 79	18,555 04	18,196 09	36,590 33
XII.—Public W	2,893 99	383,571 18	429,083 94	372,608 50
Work				
Parlia	.....	.....	.....	.....
Gover	.....	.....	.....	.....
Roads	7,524 11	2,063,235 39	1,939,961 99	1,292,481 44
Surve	.....	.....	....	.....
New	.....	.....	.....	.....
Irriga	.....	.....	.....	.....
Bridg	.....	.....	.....	.....
Ferrie	.....	.....	.....	.....
Subsi	.....	.....	.....	.....
Subsi	8,613 78	82,299 08	97,663 28	84,676 13
	.....	26,614 51	48,821 23	87,406 91

TABLE No. 3.

COMPARATIVE STATEMENT OF THE RECEIPTS AND EXPENDITURE OF THE PROVINCE OF BRITISH COLUMBIA, FROM 1st JULY, 1902, TO 31st MARCH, 1918.

NOTE.—For statement of Receipts and Expenditure from 1st July, 1886, to 30th June, 1902, see *Table No. 2* in Public Accounts, 1902, discontinued.

REVENUE.

REVENUE.	1902-1903 1st July to 30th June.	1903-1904 1st July to 30th June.	1904-1905 1st July to 30th June.	1905-1906 1st July to 30th June.	1906-1907 1st July to 30th June.	1907-1908 1st July to 30th June.	1908-1909 1st July to 31st March. (9 Months).	1909-1910 1st April to 31st March.	1910-1911 1st April to 31st March.	1911-1912 1st April to 31st March.	1912-1913 1st April to 31st March.	1913-1914 1st April to 31st March.	1914-1915 1st April to 31st March.	1915-1916 1st April to 31st March.	1916-1917 1st April to 31st March.	1917-1918 1st April to 31st March.
Dominion of Canada:—																
Annual payment of Interest	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06	$ 29,151 06
Do. Subsidy	35,000 00	35,000 00	35,000 00	35,000 00	50,000 00	150,000 00	112,500 00	150,000 00	150,000 00	150,000 00	150,000 00	180,000 00	180,000 00	180,000 00	180,000 00	180,000 00
Do. Grant per capita	114,025 00	142,025 00	142,025 00	142,025 00	142,025 00	142,025 00	106,518 75	142,025 00	142,025 00	142,025 00	142,025 00	312,384 00	312,384 00	312,384 00	312,384 00	312,384 00
Do. for Lands conveyed	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	75,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00
Do. special grant "B. N. A. Act, 1907"						100,000 00	75,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00	100,000 00
Land Sales	61,834 66	118,276 89	141,510 82	189,394 92	668,035 21	548,000 00	258,604 64	2,618,188 75	2,424,211 36	1,886,280 71	2,244,096 27	1,172,663 78	740,098 91	119,772 48	218,403 47	336,972 49
Land Revenue	70,614 15	58,574 69	159,412 55	129,019 83	177,386 10	134,342 06	120,097 56	155,778 11	221,588 98	332,895 21	391,184 93	218,595 92	167,469 53	81,117 59	70,919 19	81,246 51
Survey Fees	1,160 85	1,251 00	1,092 00	1,183 00	5,880 92	2,887 00	1,854 00	18,052 00	17,544 00	23,052 00	20,162 83	17,144 72	5,496 33	10,100 00	7,150 00	7,150 00
Water Revenue									45,619 54	49,864 03	61,909 54	27,597 11	19,906 13	33,971 73	32,569 10	254,716 00
Rents, exclusive of Land	198 00	143 00	28 50	81 00		102 50	96 50	109 00	230 00	350 00	210 25	206 00	75 00	65 00	17,737 43	27,597 94
Timber Leases	84,111 75	116,382 90	76,328 17	100,440 03	95,219 30	74,043 68	59,085 59	85,378 99	106,357 75	85,066 01	84,576 39	114,245 28	79,262 43	126,479 01	75,990 11	78,564 62
Timber Royalty and Licences	214,106 56	289,366 93	410,288 29	509,043 44	1,155,846 14	2,258,566 67	1,848,254 95	2,234,099 31	2,357,951 32	2,300,363 38	2,457,129 87	2,444,179 06	1,755,119 64	1,477,378 26	1,759,469 16	1,707,078 88
Timber Sales													47,469 45	71,875 84	88,357 26	132,538 68
Free Miners' Certificates	67,287 88	69,884 75	83,504 04	84,998 82	84,241 55	83,956 27	13,739 49	85,006 07	69,937 86	68,101 21	62,995 70	59,591 25	56,651 75	47,599 00	46,875 26	62,366 61
Mining Receipts, General	148,722 24	108,270 05	105,192 21	116,895 20	117,778 12	92,429 15	79,962 60	91,283 75	106,319 65	92,461 70	91,754 35	92,919 65	62,969 35	59,277 85	62,915 61	66,897 30
Licences, Trade and Liquor (see note)	57,868 63	61,691 74	63,693 00	53,870 00	51,705 96	53,101 70	35,400 00	58,951 49	92,188 00	75,845 36	86,537 00	102,617 00	90,629 11	73,921 88	67,788 57	70,845 55
Licences, Game				2,775 00	2,385 00	4,530 00	2,790 00	5,745 00	7,965 00	6,195 00	10,714 50	10,983 25	7,182 50	4,140 00	60,097 50	48,487 50
Licences, Commercial Travellers			7,250 00	21,000 00	9,855 00	700 00	200 00									
Fines and Fees of Court	12,611 85	13,554 45	12,924 95	14,454 70	15,932 38	17,188 47	16,960 23	40,734 60	46,203 69	48,215 15	63,858 47	64,955 58	41,033 46	20,117 15	21,968 13	25,905 52
Probate Fees	8,748 95	12,382 39	10,618 53	6,070 75	12,550 01	8,208 30	16,211 58	10,467 80	37,394 41	30,111 53	42,742 52	44,810 23	40,550 77	64,505 49	72,426 47	49,479 39
Succession Duty	12,236 74	29,055 58	31,077 48	30,352 52	40,200 54	38,450 76	27,518 97	108,486 59	200,159 88	157,243 95	169,520 00	249,275 37	162,277 60	139,067 23	277,792 73	241,302 36
Law Stamps	11,069 64	11,946 62	12,607 90	15,171 60	14,993 57	14,264 00	11,781 97	24,564 00	36,002 36	43,811 13	53,491 35	146,626 56	101,963 00	81,178 41	66,949 02	55,645 35
Registry Fees	25,044 66	30,057 92	33,912 21	37,120 71	39,288 74	220,699 64	156,757 82	408,320 19	615,402 22	597,395 75	712,258 13	652,431 48	413,257 67	241,545 50	196,963 90	166,644 18
Registration of Companies										173,101 20	141,957 55	96,420 65	64,811 90	37,923 60	44,893 50	32,199 00
Sale of Government Property											3,429 91	1,892 89	5,711 42	4,482 14	2,254 10	4,746 54
Marriage Licences	1,631 05	2,333 29	1,542 93	1,318 00	1,688 74	1,276 28	476 45	2,058 57	7,870 82	7,290 00	9,230 00	8,586 00	5,631 00	4,230 00	4,740 54	3,976 00
Revenue Tax	5,785 00	6,560 00	6,040 00	7,240 00	8,985 00	11,325 00	8,995 00	17,490 00	17,580 00	21,990 00	24,585 00	21,485 00	19,570 00	16,070 00	15,920 00	14,355 00
Real Property Tax	142,877 01	148,724 00	157,321 00	170,721 00	193,858 00	207,782 00	155,733 00	290,052 00	312,343 00	381,427 00	360,662 00	3,578 00	30 00			
Personal Property Tax	265,492 08	257,402 88	286,276 16	301,705 35	303,347 21	339,151 32	249,847 21	335,744 26	338,776 26	398,076 26	459,270 40	501,651 11	515,182 70	492,843 64	532,106 85	1,013,983 47
Wild Land Tax (including Coal and Timber Lands)	71,340 50	112,232 32	101,667 29	101,305 02	117,300 06	125,374 40	101,667 29	116,189 52	125,774 57	146,486 78	176,197 14	211,468 37	276,414 11	290,932 85	296,893 70	670,638 25
Income Tax	28,875 98	73,102 79	72,053 22	83,834 33	113,638 35	152,899 50	15,981 97	190,884 16	197,934 78	113,670 51	126,163 36	143,422 03	452,788 25	229,287 80	287,257 59	263,576 30
Mineral Tax	78,373 70	65,844 09	114,236 77	161,904 95	151,513 84	112,567 14	81,927 16	162,608 93	91,038 43	100,659 29	165,163 26	163,980 73	130,876 68	168,338 68	287,257 59	263,576 30
Royalty and Tax on Coal	58,035 94	94,682 42	107,687 12	117,519 40	126,518 56	143,225 50	102,776 91	222,792 91	248,352 86	193,267 75	214,375 55	194,590 65	173,971 75	194,590 65	194,590 65	194,590 65
Revenue over Refunds	4,484 00	1,782 00	1,525 00	1,737 50	1,737 50	1,462 50	1,215 00	2,587 50	3,075 00	3,564 74	2,906 70	3,184 93	977 19	503 31	1,462 50	664 19
Tax Sale Deeds	10 00	20 00	1,480 00	1,440 00	670 00	520 00	640 00	510 00	500 00	450 00	520 00	1,220 00	840 00	730 00	170 00	120 00
Tax on unworked Crown-granted Mineral Claims		28,686 45	39,882 48	28,686 45	34,699 95	36,901 80	22,258 01	39,869 42	42,620 84	45,426 90	42,753 43	45,953 82	40,296 71	33,769 23	37,982 97	37,883 92
Commissioner Fees on Sales for Taxes	7,279 36	1,887 32	180 00	180 00	90 00	90 00	90 00	180 00	90 00	2,564 74	2,906 70	3,184 93	977 19	503 31	1,462 50	664 19
Printing Office	27,998 84	25,016 10	21,629 20	28,166 01	30,442 15	33,646 05	27,665 68	45,104 14	115,777 69	115,111 43	87,162 70	54,016 87	41,243 22	25,660 85	39,685 30	37,587 42
Registered Taxes (all denominations)	189 00	78 78	148 69	190 00	190 00	95 00	24 23	304 28	98 91	203 24	47 10	46 20	32 95	89 64		19 15
Bureau of Mines	625 28	831 35	1,569 00	788 70	868 05	904 45	507 10	687 00	917 00	662 50	863 00	1,977 51	929 70	881 25	850 50	1,250 50
Hospital for the Insane	11,211 70	15,761 62	14,159 53	19,957 84	17,988 39	21,632 18	22,943 78	24,064 67	28,274 07	32,094 09	35,541 08	42,875 65	39,428 50	32,740 00	42,124 07	48,289 25
Provincial Home	1,088 15	1,771 23	183 97	1,092 20	723 32	2,042 58	1,477 07	3,859 88	308 30	5,522 64	4,101 67	6,623 51	4,846 60	4,900 27	884 61	15,632 05
Reimbursements for keep of prisoners	1,478 31	5,260 59	2,486 58	2,332 10	1,039 80	1,295 93	555 65	1,398 30	792 15	1,419 66	3,017 16	15,442 30	15,317 59	13,470 50	11,338 98	9,988 69
Chinese Restriction Act and Amending Acts (Dominion Statutes)	80,287 50	278,050 00	245,000 00		18,800 00	345,000 00	304,500 00	340,000 00	1,060,000 00	1,432,500 00	1,727,000 00	1,959,351 95	544,953 50			
Trathe Tolls, New Westminster Bridge			16,340 25	22,104 75	23,760 00	24,252 00	23,004 50	24,000 50	23,854 50	24,000 00	24,000 00	22,500 00	20,000 00	20,000 00	20,004 00	19,000 00
Interest	256 64	7,885 91	18,886 69	47,925 11	58,011 68	99,064 28	82,461 84	157,484 13	248,777 40	329,220 00	276,652 56	91,967 47	109,017 12	159,089 54	75,861 66	125,452 40
"Dykes Assessment Act, 1905" (tax on lands against capital charge)				14,705 41	14,705 41	14,705 07	14,000 07	19,000 07	19,000 07	19,000 07	19,000 07	19,000 07	19,000 07	19,000 07	24,805 50	19,000 07
Boiler Inspection Fees								19,614 62	20,827 04	26,454 46	28,329 81	31,288 81	26,857 31	24,327 05	28,209 26	32,411 56
Logrolling Fees								2,739 61	2,705 61	2,705 61	2,705 61	2,705 61	2,705 61	2,705 61	2,705 61	2,705 61
Fishery and Canners' Licences								13,099 66	19,329 15	13,010 50	21,695 76	27,593 61	27,593 61	40,887 85	38,865 50	40,998 85
Licences, Taxes, and Fees under "Fire Insurance Act"										25,075 00	31,340 00	32,017 79	31,446 92	30,705 18	24,446 92	32,170 00
Licences and Fees, under "Motor-traffic Regulation Act"												36,988 67	36,699 08	45,981 73	55,728 52	74,340 20
Fees under "Moving Pictures Act"															14,040 00	76,581 17
Amusements Tickets Tax														98,350 76	110,416 43	94,892 30
Dog Licences															23,940 50	17,715 50
Poll Tax																18,827 81
Sales of Liquor under "Prohibition Act"																124,497 97
Miscellaneous Receipts	26,646 32	25,048 90	28,706 33	73,695 54	39,495 60	37,447 53	41,240 89	45,633 70	62,751 48	90,735 38	290,457 71	155,404 66	95,588 45	98,161 37	136,826 69	129,606 75
	2,009,412 05	2,597,867 68	2,874,554 76	2,992,900 36	4,338,622 22	5,931,372 96	4,638,565 38	8,818,566 28	10,430,963 42	10,677,702 71	12,436,027 72	10,936,381 10	7,871,375 10	6,193,560 60	6,799,958 30	8,755,885 00
Interest on Investment of Sinking Funds	30,218 59	40,393 00	45,906 05	51,542 13	57,450 31	47,682 00	26,938 64	50,145 66	61,923 85	67,946 11	71,137 36	80,377 64	103,121 38	98,133 00	100,823 33	126,061 02
Unclaimed Money Deposits (reverted to the Province, Act 1905)					45,111 18											
Loan Act, 1897 (£721,000)	1,946,800 00															
Loan Act, 1903		1,000,000 00											7,226,000 00			
Loan Act, 1914 (£1,500,000)														3,130,000 00		
Loan Act, 1915															2,000,000 00	
Loan Act, 1916																300,000 00
	1,946,800 00	1,000,000 00											7,226,000 00	3,130,000 00	2,000,000 00	300,000 00
Treasury Bills												1,000,000 00	2,700,000 00		1,000,000 00	1,000,000 00
Deposits on account of Intestate Estates (receipts)	65,401 44	68,294 45	78,184 34	71,961 74	106,602 83	130,963 35	131,807 66	108,346 30	223,749 43	190,804 01	246,462 24	275,808 32	146,784 13	165,716 72	173,508 51	191,177 83
Do " Suitors' Fund	49,894 31	29,184 44	26,966 11	36,624 12	97,102 32	87,112 32	42,802 20	90,856 23	276,507 84	309,165 22	290,935 56	389,666 40	146,428 01	235,104 72	93,310 40	251,097 60
Do " Tax Sales surplus		1,877 09	995 80	1,657 16	6,685 24	6,040 41	4,045 91	6,294 79	4,935 56	6,294 79	6,294 79	6,294 79	6,294 79	6,294 79	6,294 79	6,294 79
Do " Official Guardian										29,243 25	41,944 78	35,604 16	28,272 21	31,072 09	21,687 34	18,654 48
Do " Rural Districts School Tax														129,745 35	134,255 23	117,731 39
Shuswap & Okanagan Railway receipts (Act, 1890)	19,571 66	21,890 27	24,021 40	28,490 24	33,796 20	36,901 24	27,202 16	44,568 45	50,325 35	62,967 28	101,111 81					
Nakusp & Slocan Railway receipts (Act, 1901)	6,056 37	9,429 60	6,901 48	9,786 06	7,952 11	6,765 89	4,575 52	8,191 92	5,769 81	9,326 54	9,084 55	9,384 12	4,908 16	3,263 46	5,285 89	4,823 29
Victoria and Sidney Railway (Act, 1892)												35,000 00				
	85,457 81	100,795 81	110,107 54	108,033 14	147,136 78	167,017 97	178,655 29	253,911 49	560,488 68	607,001 09	776,833 72	1,751,757 87	3,032,487 29	3,701,196 33	1,434,340 34	1,589,555 38
NET REVENUE	2,044,669 35	2,636,299 49	2,720,461 71	3,044,442 49	4,144,595 61	5,764,054 96	4,004,599 93	8,574,741 04	10,492,398 27	10,746,708 82	12,510,215 08	10,479,268 74	7,974,490 46	6,291,023 60	6,905,783 67	8,882,840 62

NOTE.—In Expenditure for 1902-1903, Discount and Commission include $279,748 for discount on Loan of £721,000, also Commissions, Stamp Duty, etc., on same, $38,886 46.
Under the head of "Licences, Trade and Liquor," were also included Game Licences up to the year 1905.

EXPENDITURE.

EXPENDITURE.	1902-1903 1st July to 30th June.	1903-1904 1st July to 30th June.	1904-1905 1st July to 30th June.	1905-1906 1st July to 30th June.	1906-1907 1st July to 30th June.	1907-1908 1st July to 30th June.	1908-1909 1st July to 31st March. (9 Months).	1909-1910 1st April to 31st March.	1910-1911 1st April to 31st March.	1911-1912 1st April to 31st March.	1912-1913 1st April to 31st March.	1913-1914 1st April to 31st March.	1914-1915 1st April to 31st March.	1915-1916 1st April to 31st March.	1916-1917 1st April to 31st March.	1917-1918 1st April to 31st March.
I.—Public Debt:																
Interest	$ 396,127 82	$ 346,063 54	$ 393,623 93	$ 411,718 93	$ 406,408 93	$ 364,876 19	$ 182,091 26	$ 335,212 43	$ 333,112 53	$ 332,037 52	$ 331,335 53	$ 330,587 53	$ 494,075 03	$ 779,262 53	$ 827,774 90	$ 942,467 33
"Sinking Funds (chargeable to Investment acc't as follows:																
Trustees' account, "Loan Act, 1877"	9,223 80	9,253 80	9,253 80	9,253 80	4,626 90											
Do "Loan Act, 1897"	12,049 99	12,774 80	13,546 35	14,357 03	15,164 20											
Do "Loan Act, 1897"	8,577 22	8,577 22	8,577 22	8,577 22	8,577 22	8,577 22	4,288 61	8,577 22	8,577 22	8,577 22	8,577 22	8,577 22	8,577 22	8,577 22	8,577 22	8,577 22
Do "Loan Act, 1903"	5,291 88	5,562 78	6,265 57	6,784 17	7,381 28	7,809 28	4,467 20	8,786 74	9,398 08	10,026 14	10,696 37	11,355 76	99,219 36	99,219 36	99,219 36	99,219 36
Do "Loan Acts, 1901, '03, '05, '09 & 1912"	29,219 36	29,219 36	29,219 36	29,219 36	29,219 36	29,219 36	16,944 68	29,219 36	29,219 36	29,219 36	29,219 36	29,219 36	99,219 36	99,219 36	99,219 36	99,219 36
Do Interest invested, " "	17,876 73	21,856 42	26,005 03	30,424 93	34,967 73	39,791 72	21,771 34	47,398 92	52,925 77	57,989 97	63,490 99	69,068 74	73,019 92	82,111 55	146,500 00	291,000 00
Sinking Fund, "Loan Act, 1914"															2,187 50	11,091 24
Do Interest invested "Loan Act, 1914"															254,716 00	254,716 00
Do "Loan Act, 1915"															415 71	7,268 28
Do Interest invested, "Loan Act, 1915"																162,767 64
Do "Loan Act, 1916"																486 58
Do Interest invested "Loan Act, 1916"																
Do "Dyking Assessments Adjustment Act, 1907"																169,552 73
Premium and Exchange	8 00	2,980 99	3,960 25	3,871 79	7,030 26	2,931 67	1,103 24	2,077 18	2,988 87	2,387 61	2,525 15	1,446 65	14,492 50			
Discount and Commission	373,215 10	5,669 40	5,693 88	5,711 44	5,457 29	4,018 76	2,428 92	5,089 64	5,441 04	5,519 94	5,581 64	5,620 41	3,489 91	428,576 01	107,155 82	45,754 29
Incidental Expenses of negotiating Loan	3,742 13												8,365 28			
† Redemption of Debentures (Loan Act, 1887)																
† Redemption of Debentures (Loan Act, 1897)	10,000 00	10,000 00	10,000 00	10,000 00	10,000 00	10,000 00										
† Redemption of Debentures (Loan Act, 1903)			100,000 00	100,000 00	100,000 00	100,000 00	676,000 00	4,000 00	4,000 00	4,000 00	4,000 00	4,000 00	4,000 00			
† Redemption of Debentures (Loan Act, 1903) purchased before maturity, at 101								91,007 61								
† Do $71,000 " 101													65,030 00			
† Do 25,000 " 95														23,750 00		
† Do 30,000 " 95															28,500 00	
	865,459 62	909,560 28	939,869 89	959,624 75	982,822 70	838,417 65	284,273 87	389,760 87	503,676 44	875,989 78	887,092 24	1,329,767 20	1,596,731 31	1,555,562 26	1,477,611 45	1,330,673 52
II.—Civil Government (Salaries)	119,219 96	124,295 35	145,456 46	148,782 92	120,290 40	134,295 95	106,233 50	151,785 84	161,256 67	28,374 65	43,489 89	57,845 26	63,992 50	62,600 54	59,201 52	48,597 70
III.—Administration of Justice (Salaries)	44,455 95	79,719 20	45,653 07	47,765 63	80,747 70	67,157 75	68,075 08	114,386 86	71,509 87	74,171 95	132,008 89	87,499 87	86,325 99	96,877 54	206,281 02	110,423 73
IV.—Legislation																
V.—Public Institutions (Maintenance):																
Printing Office	49,688 57	49,963 21	50,393 63	47,291 38	53,543 97	86,673 49	56,542 52	90,015 58	126,815 65	93,666 32	83,062 50	96,723 43	59,592 90	51,350 65	52,093 31	40,888 20
Hospital for the Insane	64,444 49	75,798 98	83,955 06	84,601 17	96,227 67	106,249 17	93,272 67	121,329 73	169,971 04	355,710 13	404,435 49	377,241 84	280,207 21	286,455 30	327,318 91	
Hospital for the Insane	3,747 69	3,614 99	3,888 56	3,262 20	3,550 36	3,800 40	3,747 52	6,224 47	6,522 72	7,257 38	9,188 16	6,993 71	5,787 49	6,372 72	7,057 93	
Museum	12,343 67	12,109 74	12,745 53	12,474 10	12,726 11	14,109 67	11,124 47	15,915 18	15,573 68	14,179 51	13,369 93	12,027 47	10,160 68	2,749 52		
Provincial Home	3,670 96	3,811 96	4,000 26	3,998 78	2,440 74	2,443 12	2,296 88	4,201 46	4,421 03	3,261 25	3,223 20	7,387 62	8,199 97	4,949 84	7,065 91	
Bureau of Mines												6,736 31	5,627 94	5,764 78	4,068 22	
Mineral Resources Stations				12,219 99	14,194 55	12,025 56	12,839 44	16,548 34	21,728 03	17,508 86	17,650 57	30,684 63	30,779 41	23,250 23	17,725 80	11,737 73
Fisheries (hatcheries and administration)															12,496 92	14,970 47
Industrial School for Boys															14,000 00	12,445 56
Industrial School for Girls															3,962 90	4,488 84
VI.—Hospitals and Charities	82,970 34	123,875 01	98,466 83	107,571 10	125,630 61	163,047 57	178,379 49	209,442 14	304,666 01	366,991 92	393,389 21	430,784 67	534,564 13	355,440 67	486,580 67	467,489 24
VII.—Administration of Justice (other than Salaries)	101,092 91	103,787 45	108,186 87	116,406 53	114,009 89	152,840 76	143,305 70	213,386 61	223,339 26	272,826 06	421,205 49	1,031,443 43	1,310,290 52	1,326,308 24	1,331,413 43	1,297,496 98
VIII.—Education	397,643 46	415,365 43	439,245 17	418,867 97	469,666 37	466,985 63	373,769 42	587,993 91	649,141 75	783,290 47	944,037 74	1,141,074 43	1,310,290 52	1,326,308 24	1,331,413 43	1,297,496 98
IX.—Transport	27,229 95	28,641 09	27,748 32	29,902 62	27,878 97	40,063 65	27,023 40	50,104 43	54,251 00	91,912 29	84,428 50	111,039 83	57,787 22	38,850 86	32,371 38	35,060 04
X.—Department of Agriculture															124,099 25	138,370 05
XI.—Revenue Services	30,329 02	24,155 96	22,691 96	24,918 15	58,190 54	52,481 45	54,243 00	97,268 89	57,067 66	52,349 25	24,566 55	23,256 26	29,369 79	18,566 04	18,186 09	36,580 33
XII.—Public Works:																
Works and Buildings	232,249 11	143,291 40	104,199 99	72,028 37	252,299 54	469,942 44	539,900 59	511,165 79	1,060,245 74	1,818,402 95	2,815,648 50	3,064,026 72	1,573,893 99	383,571 18	429,083 94	372,698 90
Parliament Buildings			2,500 00													
Government House, Victoria (see note)	2,624 60	3,811 78	3,072 79	5,125 77	9,095 85	5,944 12	10,448 64	22,166 83	18,348 76							
Roads, Streets, Bridges and Wharves (see note)	560,020 20	406,012 02	230,510 76	368,504 00	567,722 73	866,170 50	1,114,508 83	2,012,102 42	3,072,606 00	2,995,732 92	4,790,461 24	5,322,386 35	2,357,524 11	2,060,235 20	1,939,061 99	1,292,481 44
Surveys	12,444 94	8,191 31	6,534 03	6,978 56	25,047 10	73,859 96	190,118 32	568,463 66	473,267 06							
New Westminster Bridge	501,501 86	470,743 30	45,203 46													
Irrigation						2,990 00										
Bridges,																
Ferries																
Subsidies to Steamboats																
Subsidies to Steamboats, Ferries, and Bridges																
Miscellaneous																
XIII.—Miscellaneous (see note)	161,522 20	181,915 70	180,468 59	179,557 94	188,597 74	275,010 69	310,607 43	554,452 36	861,593 25	2,283,836 06	3,912,366 85	2,448,009 93	2,656,163 37	2,000,302 63	1,005,364 50	1,119,686 50
XIV.—Department of Lands															286,237 06	343,618 59
* *Less* amount of Sinking Funds as above, chargeable to Investm't acc't.	3,555,450 93	3,030,237 47	3,575,374 17	2,620,147 66	3,142,796 06	4,541,636 34	3,932,204 06	6,616,935 51	8,392,273 38	11,368,767 04	15,626,805 96	15,955,123 65	12,163,109 65	10,083,504 47	9,531,740 35	9,349,350 76
	152,268 68	157,443 38	162,957 33	182,021 39	183,316 09	168,927 58	96,013 01	163,942 24	169,720 43	175,742 69	181,983 94	188,211 07	210,442 65	202,842 10	452,422 65	780,148 88
† *Less* Redemption of Debentures as above, chargeable against Loans	3,403,182 25	2,872,794 09	3,412,416 84	2,438,126 27	2,959,479 97	4,372,708 76	3,836,191 05	6,452,993 27	8,222,552 95	11,193,024 35	15,444,822 02	15,766,912 48	11,952,667 00	9,880,662 37	9,079,317 70	8,569,201 88
		10,000 00	110,000 00	110,000 00	110,000 00	110,000 00	66,000 00	110,000 00	110,000 00		32,500 00	4,000 00				169,552 73
	3,393,182 25	2,862,794 09	3,302,416 84	2,328,126 27	2,849,479 97	4,262,708 76	3,770,191 05	6,342,993 27	8,112,552 95	11,193,024 35	15,412,322 02	15,762,912 48	11,952,667 00	9,880,662 37	9,079,317 70	8,399,649 15
Less transfers to Capital Account:																
XII.—Public Works																131,290 39
Works and Buildings																330,000 00
Roads, Streets, Bridges, and Wharves																63,793 09
XIII.—Miscellaneous																500 00
XIV.—Department of Lands																
NET EXPENDITURE	3,393,182 25	2,862,794 09	3,302,416 84

Appendix I.

INSCRIBED STOCK ISSUED.

———:o:———

RETURN showing the amount of INSCRIBED STOCK issued under the British Columbia Loan Acts.

[To 31st March, 1921.]

3 per cent.—Inscribed Stock, issued under "Loan Act, 1891."

Terminable 30th June, 1941.	Issue for Money Loan.	Issue for redemption of Debentures of Loan, 1877.	Issue for redemption of Debentures of Loan, 1887.	Total Issue.	
Date of Issue.					
1st July, 1891..	£200,000=$970,000	.....	.....	£200,000 @ $4.85	$ 970,000.00
1st July, 1892..	.....	£42,195=$204,645.75	£126,750=$614,737.50	168,945 "	819,383.25
1st Jan., 1893..	.....	20,450= 99,182.50	12,720= 61,692.00	33,170 "	160,874.50
1st July, 1893..	.....	980= 4,753.00	.....	980 "	4,753.00
1st Jan., 1894..	.....	2,100= 10,185.00	7,250= 35,162.50	9,350 "	45,347.50
1st Jan., 1895..	.....	2,380= 11,543.00	9,375= 45,468.75	11,755 "	57,011.75
1st July, 1895..	.....	1,540= 7,469.00	500= 2,425.00	2,040 "	9,894.00
1st July, 1896..	.....	1,820= 8,827.00	2,000= 9,700.00	3,820 "	18,527.00
1st Jan., 1897..	.....	6,250= 30,312.50	3,600= 17,460.00	9,850 "	47,772.50
1st July, 1897..	.....	.....	1,150= 5,577.50	1,150 "	5,577.50
				£441,060	$2,139,141.00

$2,139,141 00

3 per cent. Inscribed Stock issued under "Loan Act, 1893," Terminable 30th June, 1941.

Date of Issue, 1st July, 1893..	Issue for Parliament Buildings Construction, £123,700 @ $4.85	599,945 00

3 per cent. Inscribed Stock issued under "Loan Act, 1895," Terminable 30th June, 1941.

Date of Issue, from 1st Jan., 1895..	..... £420,000 @ $4.85	2,037,000 00

3 per cent. Inscribed Stock issued under "Loan Act, 1899," Terminable 30th June, 1941.

Date of Issue, from 1st July, 1899..	..... £340,000 @ $4.85	1,649,000 00

3 per cent. Inscribed Stock issued under "Loan Act, 1902," Terminable 30th June, 1941.

Date of Issue, from 1st July, 1902..	..... £721,000 @ $4.85	3,496,850 00

4 1/2 per cent. Inscribed Stock issued under "Loan Act, 1914," Terminable 1st April, 1941.

Date of Issue, from 1st April, 1914.	..... £1,500,000 @ $4.85	7,275,000 00
		17,196,936 00

Appendix J.

DEBENTURES OUTSTANDING.

:o:

RETURN showing the amount of DEBENTURES outstanding, issued under the British Columbia Loan Acts.

[To 31st March, 1921.]

4 1/2 per cent. Debentures issued under "Loan Act, 1915."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
1st December, 1915	1st December, 1925	C. 1 to 500 501 to 3,380	$ 500 1,000	$3,130,000 00

4 1/2 per cent. Debentures issued under "Loan Act, 1916."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
1st July, 1916	1st July, 1926	D. 0001 to 2,000	$1,000	$2,000,000 00

5 per cent. Debentures issued under "Loan Act, 1916."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
1st April, 1918	1st April, 1928	H. 1 to 100 101 to 420 421 to 1,250	$ 100 500 1,000	$1,000,000 00
2nd July, 1919	2nd July, 1939	Y. 1 to 70 71 to 164 165 to 3,110	100 500 1,000	3,000,000 00
6th January, 1920	6th January, 1925	L.L. 1 to 140 141 to 322 323 to 2,667	100 500 1,000	2,450,000 00
				$6,450,000 00

5 per cent. Debentures issued under "Loan Act, 1917."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
1st December, 1917	1st December, 1937	G. 1	$300,000	$300,000 00
1st April, 1918	1st April, 1938	I. 1	200,000	200,000 00
1st November, 1918	1st November, 1938	M. 1	100,000	100,000 00
2nd December, 1918	1st December, 1938	O. 1., P. 1	100,000	200,000 00
16th May, 1919	16th May, 1939	T. 1	300,000	300,000 00
				$1,100,000 00

5 1/2 per cent. Debentures issued under "Loan Act, 1918."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
5th March, 1919	5th March, 1939	S. 1 to 1,000 1,001 to 1,400 1,401 to 4,100	$ 100 500 1,000	$3,000,000 00

6 per cent. Debentures issued under "Loan Act, 1919."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
21st March, 1921	21st March, 1926	D.E. 1 to 2,000	$1,000	$2,000,000 00

Appendix J.

DEBENTURES OUTSTANDING—Continued.

6 per cent. Debentures issued under "Loan Act, 1920."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
25th October, 1920.....	25th October, 1923.....	D.C. 1 to 1,000	$1,000	$1,000,000

5 per cent. Debentures issued under "Better Housing Act, 1919."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
31st December, 1920.....	31st December, 1940	D.D. 1	$1,361,500	$1,361,500 00

6 per cent. Debentures issued under "Pacific Great Eastern Note Payment Loan Act, 1920."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
1st June, 1920	1st June, 1925	I.I.I. 1 to 2,000	$1,000	$2,000,000 00
30th June, 1920.....	30th June, 1925.....	M.M.M. 1 to 2,300	1,000	
		M.M.M. 2,301 to 3,300	500	2,828,000 00
		Y.Y.Y. 1 to 28	1,000	
				$4,828,000 00

6 per cent. Debentures issued under "Pacific Great Eastern Construction Loan Act, 1920."

Date of Issue.	Terminable.	Numbers.	Denomination.	Total amount issued and outstanding.
27th July, 1920	27th July, 1925.....	D. A. 1 to 2,800	$1,000	$3,000,000 00
		D. A. 2,801 to 3,200	500	
1st October, 1920.....	1st October, 1925	D.B. 1 to 600	500	1,000,000 00
		D.B. 601 to 1,300	1,000	
				$4,000,000 00

DYKING DEBENTURES OUTSTANDING.

—:o:—

RETURN showing the amount of DEBENTURES outstanding, issued under the Dyking Acts.

[To 31ST MARCH, 1921.]

3 1/2 per cent. Debentures issued under the "Dyking Debenture Act, 1897," the "Public Dyking Act 1898," and the "Public Dyking Act (1898) Amendment Act, 1899."

Date of Issue.	Date issued from Treasury.	Numbers.	Denomination.	When redeemable.	Total amount outstanding.
July 1st, 1897 ...	November 24th, 1897.	1 to 118	$1,000 00	40 years from 1st July, 1897.	$118,000 00
"	January 15th, 1898.	119 to 314	1,000 00	" "	196,000 00
"	February 3rd, 1898.	315 to 374 Act 1897.	1,000 00	" "	60,000 00
"	February 9th, 1898.	375 to 424	1,000 00	" "	50,000 00
"	May 16th, 1898.	425 to 471	1,000 00	" "	47,000 00
July 1st, 1899....	December 29th, 1899.	1 to 200—Acts 1898 and 1899.	1,000 00	38 years from 1st July, 1899.	200,000 00
					$671,000 00
	Less Debentures re	deemed in 1908, $100,000; do. 1909,		$71,000; do. 1911, $25,000. do. 1912, 30,000.	226,000 00
					$445,000 00

DR.

December 2
June 2
June 3
Dec. 3
March 3
June 3
December 3
June 3
June 3
June 3
December 3
February 2
June 3
June 3
December 3
January 3
June 3
June 3
December 1
January 1
June 1
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June
December
June
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December

INSCRIBED STOCK. — SINKING FUND.

LOAN ACTS, 1891, 1893, 1895, 1899, and 1902.

DR. BRITISH COLUMBIA LOAN TRUSTEES, LONDON, IN ACCOUNT WITH THE PROVINCE OF BRITISH COLUMBIA. CR.

Date.	Transfer of Securities from Sinking Fund, "Loan Act, 1887."	Remittances.	Interest on Investments and Bank Balances.	Total.
December 23rd, 1891		$4,850 00		$4,850 00
June 23rd, 1892		4,850 00		4,850 00
June 30th, 1892			$ 13 34	13 34
Dec. 31st, 1892		8,946 92		8,946 92
March 31st, 1893			115 37	115 37
June 30th, 1893		9,751 28		9,751 28
December 31st, 1893		9,775 05		9,775 05
June 30th, 1894		10,001 79		10,001 79
June 30th, 1894			1,477 85	1,477 85
June 30th, 1894		17,998 35		17,998 35
December 31st, 1894		13,286 57		13,286 57
February 28th, 1895			1,096 62	1,096 62
June 30th, 1895			1,315 95	1,315 95
June 30th, 1895		13,336 04		13,336 04
December 31st, 1895		23,521 05		23,521 05
January 31st, 1896			1,547 19	1,547 19
June 30th, 1896		23,613 68		23,613 68
June 30th, 1896			1,936 88	1,936 88
December 31st, 1896		23,852 53		23,852 53
January 31st, 1897			2,309 87	2,309 87
June 30th, 1897		23,880 42	2,694 62	26,575 04
January 31st, 1898		23,880 43	3,088 32	26,968 75
June 30th, 1898		23,880 43	3,482 02	27,362 45
December 31st, 1898		23,880 43	3,895 54	27,775 97
June 30th, 1899		23,880 43	4,318 56	28,198 99
December 31st, 1899		30,684 98	4,734 69	35,419 67
June 30th, 1900		33,565 88	5,293 29	38,859 17
December 31st, 1900		32,125 43	5,917 42	38,042 85
June 30th, 1901		32,125 43	6,536 00	38,661 43
December 31st, 1901		32,125 43	7,176 78	39,302 21
June 30th, 1902		32,125 43	7,812 42	39,937 85
December 31st, 1902		32,125 43	8,456 56	40,581 99
June 30th, 1903		67,093 93	9,420 17	76,514 10
December 31st, 1903		49,609 68	10,412 26	60,021 94
June 30th, 1904		49,609 68	11,444 16	61,053 84
December 31st, 1904		49,609 68	12,505 96	62,115 64
June 30th, 1905		49,609 68	13,589 07	63,198 75
December 31st, 1905		49,609 68	14,661 57	64,271 25
June 30th, 1906		49,609 68	15,763 36	65,373 04
December 31st, 1906		49,609 68	16,903 58	66,513 26
June 30th, 1907		49,609 68	18,063 95	67,673 63
December 31st, 1907		49,609 68	19,258 20	68,867 88
June 30th, 1908		49 609 68	20,533 52	70,143 20
December 31st, 1908		49,609 68	21,771 34	71,381 02
June 30th, 1909		49,609 68	23,038 45	72,648 13
December 31st, 1909		49,609 68	24,320 47	73,930 15
June 30th, 1910		49,609 68	25,606 50	75,216 18
December 31st, 1910		49,609 68	26,919 27	76,528 95
June 30th, 1911		49,609 68	28,261 80	77,871 48
December 31st, 1911		49,609 68	29,648 17	79,257 85
June 30th, 1912		49,609 68	31,031 15	80,640 83
December 31st, 1912		49,609 68	32,459 84	82,069 52
June 30th, 1913		49,609 68	33,950 68	83,560 36
December 31st, 1913		49,309 68	35,521 07	85,130 75
June 30th, 1914		49,609 68	37,209 52	86,819 20
December 31st, 1914		49,609 68	38,834 76	88,444 44
June 30th, 1915		49,609 68	40,503 39	90,113 07
December 31st, 1915		49,609 68	42,273 14	91,882 82
June 30th, 1916			41,254 94	41,254 94
June 30th, 1917	$399,170 94 (£97,159 13s. 2d. B.C. 3 % St.)			399,170 94
Dec. 31st, 1917			52,259 47	52,259 47
June 30th, 1918			53,504 00	53,504 00
Dec. 31st, 1918			54,234 68	54,234 68
June 30th, 1919			55,882 77	55,882 77
Dec. 31st, 1919			57,751 33	57,751 33
June 3rd, 1920		49,609 68	58,577 69	108,187 37
Dec. 31st, 1920		49,609 68		49,609 68
	$399,170 94	$1,914,618 70	$1,080,589 52	$3,394,379 16

Date.	Investments.		Expenses and Brokerage.	Total.
March 31st, 1893	Brit. Columbia inscribed stock 3%.	$16,195 36	$22 55	$16,217 91
June 30th, 1894	Do do 3%.	25,800 10	70 57	25,870 67
June 30th, 1894	Do do 3%.	13,655 07	37 40	13,692 47
Dec. 31st, 1894	Do do 3%.	11,968 18	30 72	11,998 90
Feb. 28th, 1895	Do do 3%.	14,346 44	36 75	14,383 19
June 30th, 1895	Do do 3%.	14,613 19	38 80	14,651 99
Jan. 31st, 1896	Do do 3%.	25,005 25	62 99	25,068 24
June 30th, 1896	Do do 3%.	25,488 10	62 46	25,550 56
Jan. 31st, 1897	Do do 3%.	26,097 90	64 50	26,162 40
June 30th, 1897	Do do 3%.	26,509 15	65 89	26,575 04
Jan. 31st, 1898	Do do 3%.	26,902 87	65 88	26,968 75
June 30th, 1898	Do do 3%.	27,293 28	69 17	27,362 45
Dec. 31st, 1899	Do do 3%.	27,706 33	69 64	27,775 97
June 30th, 1899	Do do 3%.	28,127 57	71 42	28,198 99
Dec. 31st, 1900	Do do 3%.	35,406 33	13 34	35,419 67
June 30th, 1900	Do do 3%.	38,754 63	104 54	38,859 17
Dec. 31st, 1900	Do do 3%.	37,939 49	103 36	38,042 85
June 30th, 1901	Do do 3%.	38,554 37	107 06	38,661 43
Dec. 31st, 1901	Do do 3%.	39,196 04	106 17	39,302 21
June 30th, 1902	Do do 3%.	39,830 18	107 67	39,937 85
Dec. 31st, 1902	Do do 3%.	40,468 99	113 00	40,581 99
June 30th, 1903	Do do 3%.	76,299 73	214 37	76,514 10
Dec. 31st, 1903	Do do 3%.	59,849 52	172 42	60,021 94
June 30th, 1904	Do do 3%.	60,876 65	177 19	61,053 84
Dec. 31st, 1904	Do do 3%.	61,934 86	180 78	62,115 64
June 30th, 1905	Do do 3%.	63,019 06	179 69	63,198 75
Dec. 31st, 1905	Do do 3%.	64,087 08	184 17	64,271 25
June 30th, 1906	Do do 3%.	65,182 76	190 28	65,373 04
Dec. 31st, 1906	Do do 3%.	66,319 34	193 92	66,513 26
June 30th, 1907	Do do 3%.	67,673 63		67,673 63
Dec. 31st, 1907	Do do 3%.	68,867 88		68,867 88
June 30th, 1908	Do do 3%.	70,143 20		70,143 20
Dec. 31st, 1908	Do do 3%.	71,381 02		71,381 02
June 30th, 1909	Do do 3%.	72,648 13		72,648 13
Dec. 31st, 1909	Do do 3%.	73,830 49	99 66	73,930 15
June 30th, 1910	Do do 3%.	74,992 35	223 83	75,216 18
Dec. 31st, 1910	Do do 3%.	76,300 28	228 67	76,528 95
June 30th, 1911	Do do 3%.	77,636 01	235 47	77,871 48
Dec. 31st, 1911	Do do 3%.	79,020 44	237 41	79,257 85
June 30th, 1912	Do do 3%.	80,398 09	242 74	80,640 83
Dec. 31st, 1912	Do do 3%.	81,813 20	256 32	82,069 52
June 30th, 1913	Do do 3%.	83,292 40	267 96	83,560 36
Dec. 31st, 1913	Do do 3%.	84,985 70	145 05	85,130 75
June 30th, 1914	Do do 3%.	86,679 64	139 55	86,819 19
Dec. 31st, 1914	Do do 3%.	88,159 64	284 81	88,444 45
June 30th, 1915	Do do 3%.	89,813 83	299 24	90,113 07
Dec. 31st, 1915	Do do 3%.	91,547 08	335 74	91,882 82
June 30th, 1916	Do do 3%.	41,096 59	158 35	41,254 94
June 30th, 1917	Do do 3%.	399,170 94		399,170 94
Dec. 31st, 1917	Do do 3%.	52,048 14	211 33	52,259 47
June 30th, 1918	Do do 3%.	53,300 30	203 70	53,504 00
Dec. 31st, 1918	Do do 3%.	54,026 25	208 43	54,234 68
June 30th, 1919	Do do 3%.	55,595 53	214 49	55,810 02
Dec. 31st, 1919	Do do 3%.	57,601 59	222 49	57,824 08
June 30th, 1920	Do do 3%.	107,754 14	433 23	108,187 37
Dec. 31st, 1920	Cash on hand	49,609 68		49,609 68
		$3,386,813 99	$7,565 17	$3,394,379 16

NOTE.—The total amount of British Columbia 3% stock held by the Trustees on the 30th June, 1920, was £802,591 13s. 3d.

Treasury, 20th July, 1921.

W. J. GOEPEL, *Deputy Minister of Finance.*

LOAN ACT, 1914.—SINKING FUND.

THE MINISTER OF FINANCE, TRUSTEE, IN ACCOUNT WITH THE PROVINCE OF BRITISH COLUMBIA.

DR. CR.

Date.	Remittances.	Interest on Investments and Bank Balances.	Total.	Date Invested.	Dominion Government 5½ per cent. War Loan, 1933 (par value).	Dominion Government 5½ per cent. War Loan, 1934 (par value).	Dominion Government 5 per cent. War Loan, 1937 (par value).	Dominion Government 5½ per cent. War Loan, 1937 (par value).	Purchase Price.	Cash in Bank.	Total.
12th March, 1917..	$145,500 00	.....	$145,500 00	12th March, 1917.	.....	.....	$151,500 00	.....	$145,105 79	.....	$145,105 79
31st March, 1917..	.....	$ 237 54	237 54	5th June, 1917..	.....	.....	303,700 00	.....	291,749 60	.....	291,749 60
5th June, 1917...	291,000 00	.....	291,000 00	1st Dec., 1917..	.....	.....	Converted into ...	$460,300 00	11,532 12	.....	11,532 12
31st March, 1918..	.....	11,661 24	11,661 24	16th Nov., 1918...	$131,850 00	.....	.....	.....	131,850 00	.....	131,850 00
29th Oct., 1918....	119,050 00	.....	119,050 00	4th June, 1919..	25,000 00	.....	.....	.....	26,315 58	.....	26,315 58
31st March, 1919..	.....	25,816 18	25,816 18	5th June, 1919..	15,000 00	.....	.....	.....	15,791 61	.....	15,791 61
7th May, 1919....	119,050 00	.....	119,050 00	7th June, 1919..	10,000 00	.....	.....	.....	10,531 00	.....	10,531 00
31st March, 1920..	.....	35,711 84	35,711 84	8th Nov., 1919..	.....	$114,500 00	.....	.....	114,500 00	.....	114,500 00
25th Aug., 1920....	119,050 00	.....	119,050 00	8th Sept., 1920..	.....	151,250 00	.....	.....	143,682 04	.....	143,682 04
31st March, 1921...	.....	46,394 23	46,394 23	31st March, 1921.	.....	.....	.....	.....	.....	$22,413 29	22,413 29
	$793,650 00	$119,821 03	$913,471 03		$181,850 00	$265,750 00		$460,300 00	$891,057 74	$22,413 29	$913,471 03

LOAN ACT, 1915.—SINKING FUND.

THE MINISTER OF FINANCE, TRUSTEE, IN ACCOUNT WITH THE PROVINCE OF BRITISH COLUMBIA.

DR. CR.

Date	Remittances.	Interest on Investments and Bank Balances.	Total.	Date Invested.	Dominion Government 5½ per cent. War Loan, 1933 (par value).	Dominion Government 5½ per cent. War Loan, 1934 (par value).	Dominion Government 5 per cent. War Loan, 1937 (par value).	Dominion Government 5½ per cent. War Loan, 1937 (par value).	Purchase Price.	Cash in Bank.	Total.
12th March, 1917..	$ 254,715 00	.....	$ 254,715 00	12th March, 1917.	.....	.....	$265,300 00	.....	$ 254,106 18	.....	$ 254,106 18
31st March, 1917..	.....	$ 415 71	415 71	5th June, 1917..	.....	.....	1,300 00	.....	1,248 85	.....	1,248 85
1st Dec., 1917....	254,715 00	.....	254,715 00	1st Dec., 1917...	.....	.....	Converted into ...	$526,650 00	261,524 02	.....	261,524 02
31st March, 1918..	.....	7,528 28	7,528 28	.....	.....	.....	.....	.....	.....	.....	.....
29th Oct., 1918....	238,908 00	.....	238,908 00	16th Nov., 1918..	$254,050 00	.....	.....	.....	254,050 00	.....	254,050 00
31st March, 1919..	.....	29,697 90	29,697 90	8th Nov., 1919..	.....	$297,500 00	.....	.....	297,500 00	.....	297,500 00
28th Oct., 1919....	238,908 00	.....	238,908 00	.....	.....	.....	.....	.....	.....	.....	.....
31st March, 1920..	.....	43,777 00	43,777 00	8th Sept., 1920..	.....	32,350 00	.....	.....	30,719 21	.....	30,719 21
31st March, 1921...	238,908 00	60,893 01	299,801 01	31st March, 1921..	.....	.....	.....	.....	.....	$269,317 64	269,317 64
	$1,226,154 00	$142,311 90	$1,368,465 90		$254,050 00	$329,850 00		$526,650 00	$1,099,148 26	$269,317 64	$1,368,465 90

LOAN ACT, 1916.—SINKING FUND.

THE MINISTER OF FINANCE, TRUSTEE, IN ACCOUNT WITH THE PROVINCE OF BRITISH COLUMBIA.

DR. CR.

Date.	Remittances.	Interest on Investments and Bank Balances.	Total.	Date Invested.	Dominion Government 5½ per cent. War Loan, 1933 (par value).	Dominion Government 5½ per cent. War Loan, 1934 (par value).	Dominion Government 5½ per cent. War Loan, 1937 (par value).	Purchase Price.	Cash in Bank.	Total.
1st Dec., 1917 ..	$162,757 64	.....	$162,757 64	1st Dec., 1917...	.....	.....	$164,200 00	$162,735 29	.....	$162,735 29
31st March, 1918..	.....	$ 438 58	438 58	.....	.....	.....	.....	.....	.....	.....
29th Oct., 1918....	154,505 00	.....	154,505 00	19th Nov., 1918..	$159,550 00	.....	.....	159,550 00	.....	159,550 00
31st March, 1919..	.....	9,382 26	9,382 26	8th Nov., 1919..	.....	$257,500 00	.....	257,500 00	.....	257,500 00
7th May, 1919,...	77,500 00	.....	77,500 00	.....	.....	.....	.....	.....	.....	.....
10th July, 1919....	154,505 00	.....	154,505 00	8th Sept., 1920...	.....	360,100 00	.....	341,954 21	.....	341,954 21
31st March, 1920..	.....	21,090 39	21,090 39	31st March, 1921.	.....	.....	.....	.....	$18,970 95	18,970 95
25th Aug., 1920 ...	318,005 00	.....	318,005 00							
31st March, 1921...	.....	42,526 58	42,526 58							
	$867,272 64	$73,437 81	$940,710 45		$159,550 00	$617,600 00	$164,200 00	$921,739 50	$18,970 95	$940,710 45

LOAN ACT, 1917.—SINKING FUND.

THE MINISTER OF FINANCE, TRUSTEE, IN ACCOUNT WITH THE PROVINCE OF BRITISH COLUMBIA.

DR. CR.

Date.	Remittances.	Interest on Investments and Bank Balances.	Total.	Date Invested.	Dominion Government 5½ per cent. War Loan, 1933 (par value).	Dominion Government 5½ per cent. War Loan, 1934 (par value).	Purchase Price.	Cash in Bank.	Total.
29th Oct., 1918	$ 8,610 00	.....	$ 8,610 00	16th Nov., 1918	$8,600 00	.....	$ 8,600 00	.....	$ 8,600 00
31st March, 1919....	.....	$ 12 54	12 54	8th Nov., 1919....	.....	$23,500 00	23,500 00	.....	23,500 00
7th May, 1919.....	5,740 00	.....	5,740 00	.....	.....	.....	.....	.....	.....
28th Oct., 1919.....	17,220 00	.....	17,220 00	8th Sept., 1920....	.....	16,750 00	15,905 62	.....	15,905 62
31st March, 1920....	.....	587 49	587 49	31st March, 1921...	.....	.....	.....	$18,462 39	18,462 39
25th Aug., 1920.....	14,812 00	.....	14,812 00						
31st March, 1921	17,220 00	2,265 98	19,485 98						
	$63,602 00	$2,866 01	$66,468 01		$8,600 00	$40,250 00	$48,005 62	$18,462 39	$66,468 01

LOAN ACT, 1918.—SINKING FUND.

THE MINISTER OF FINANCE, TRUSTEE, IN ACCOUNT WITH THE PROVINCE OF BRITISH COLUMBIA.

DR. CR.

Date.	Remittances.	Interest on Investments and Bank Balances.	Total.	Date Invested.		Dominion Government 5½ per cent. War Loan, 1934 (par value).	Purchase Price.	Cash in Bank.	Total.
29th Oct., 1919.....	$ 86,000 00	.....	$ 86,000 00	8th Nov., 1919....		$85,500 00	$85,500 00	.....	$ 85,500 00
31st March, 1920....	.....	$ 89 86	89 86	8th Sept., 1920 ...		3,100 00	2,943 73	.....	2,943 73
31st March, 1921....	86,000 00	4,861 08	90,861 08	31st March, 1921.		.....	.....	$88,507 21	88,507 21
	$172,000 00	$4,950 94	$176,950 94			$88,600 00	$88,443 73	$88,507 21	$176,950 94

BETTER HOUSING ACT, 1919.—SINKING FUND.

Appendix K.

THE MINISTER OF FINANCE, TRUSTEE, IN ACCOUNT WITH THE PROVINCE OF BRITISH COLUMBIA.

DR. CR.

Date.	Remittances.	Interest on Investments and Bank Balances.	Total.	Dated Invested.	Dominion Government 5½ per cent. War Loan 1934 (par value).	Purchase Price.	Cash in Bank.	Total.
25th August, 1920	$22,680 00	.....	$22,680 00	8th September, 1920	$24,300 00	$23,075 01	.....	$23,075 01
31st March, 1921	.....	$702 97	702 97	31st March, 1921	.....	.....	$307 96	307 96
	$22,680 00	$702 97	$23,382 97		$24,300 00	$23,075 01	$307 96	$23,382 97

DYKING DEBENTURES ACT, 1897.—SINKING FUND.

THE MINISTER OF FINANCE, TRUSTEE, IN ACCOUNT WITH THE PROVINCE OF BRITISH COLUMBIA.

DR. CR.

Date.	Remittances.	Interest on Investments and Bank Balances.	Total	Date Invested.	British Columbia Dyking Debentures 5½ per cent. (par value).	British Columbia 4½ per cent. Inscribed Stock (par value).	Dominion Government 5½ per cent. War Loan, 1933 (par value).	Dominion Government 5½ per cent. War Loan, 1934 (par value).	Purchase Price.	Cash in Bank.	Total.
To 31st Mar., 1918	$56,496 26	.....	$ 56,496 26	To 31st Mar., 1918	$59,000 00	.....	.....	.....	$ 56,496 26	.....	$ 56,496 26
To 31st Mar., 1918	.....	$14,892 50	14,892 50	To 31st Mar., 1918	.....	£3,240 8 10	.....	.....	14,892 50	.....	14,892 50
2nd July, 1918	7,867 00	.....	7,867 00	16th Nov., 1918	.....	.....	$9,600 00	.....	9,600 00	.....	9,600 00
31st March, 1919	.....	2,809 70	2,809 70	.....	.....	.....	.....	.....	.....	.....	.....
4th July, 1919	7,867 00	.....	7,867 00	8th Nov., 1919	.....	.....	.....	$10,500 00	10,500 00	.....	10,500 00
31st March, 1920	.....	3,087 44	3,087 44	.....	.....	.....	.....	.....	.....	.....	.....
25th Aug., 1920	7,867 00	.....	7,867 00	8th Sept., 1920	.....	.....	.....	12,150 00	11,537 50	.....	11,537 50
31st March, 1921	.....	4,282 56	4,282 56	31st March, 1921	.....	.....	.....	.....	.....	$2,143 20	2,143 20
	$80,097 26	$25,072 20	$105,169 46		$59,000 00	£3,240 8 10	$9,600 00	$22,650 00	$103,026 26	$2,143 20	$105,169 46

SECURITIES deposited with the Government as at 31st March, 1921, pursuant to the "Insurance Act," Chapter 33, 1913.

Appendix L.

NAME OF COMPANY.	Accepted Value of Security.	NATURE OF SECURITY.
British Columbia Plate Glass Insurance Company	$4,742 66	5 Township of Richmond Debentures, Waterworks By-law 141—$1,000 each. Dominion of Canada War Loan Bond, 1925, $1,000. British Columbia 3% Inscribed stock—£200 sterling.
Guardian Casualty & Guaranty Company of Utah	15,299 54	Deposit, Union Bank of Canada.
Great North Insurance Company	5,000 00	Deposit, Canadian Bank of Commerce.
National Plate Glass Insurance Company, Limited	4,246 70	5 City of Salmon Arm 5% Debentures—$1,000 each. 3 City of Nelson 5% Street Railway Purchase By-law Debentures—$100 each. 3 City of Alberni Roger Creek Debentures By-law 19—$70 each.
Royal Plate Glass Insurance Company of Canada	4,875 00	Deposit Receipt, Canadian Bank of Commerce—$125. 5 Dominion of Canada War Loan Bonds—$1,000 each.
Union Fire and Casualty Company	26,556 56	20 Toronto Harbour Commissioners Bonds—$1,000 each. Dominion of Canada War Loan Bonds, par value, $13,600.
Western Empire Life Assurance Company	25,650 00	27 Dominion of Canada War Loan Bonds—$1,000 each.

Certified.

A. N. MOUAT, C.A.,
Comptroller-General.

W. J. GOEPEL,
Deputy Minister of Finance.

SECURITIES deposited with the Government as at 31st March, 1921, pursuant to various Acts of Incorporation.

NAME OF COMPANY.	Accepted Value of Security.	NATURE OF SECURITY.	AUTHORITY FOR DEPOSIT.
B.C. Trust Company	$25,000 00	Bond, F. Carter-Cotton, R. Kelly	Section 4, chapter 49, 1907.
Dominion Trust Company	50,000 00	*Bond, London Guarantee & Accident Company, Ltd.	Section 9, chapter 89, 1913.

Certified.

A. N. MOUAT, C.A.,
Comptroller-General.

W. J. GOEPEL,
Deputy Minister of Finance.

SECURITIES deposited with the Government as at 31st March, 1921, pursuant to the "Trust Companies Act," Chapter 13, 1914. Appendix L.

NAME OF COMPANY.	Accepted Value of Security.	NATURE OF SECURITY.
Bankers' Trust Company	$25,000 00	Deposit Receipt, Merchants' Bank of Canada.
B.C. Land and Investment Agency, Ltd	50,000 00	Certificate of Title of Lots 13 and 14, Block 75, Victoria.
B.C. Trust Corporation	64,030 12	Conveyance of undivided one-half interest in 313 lots, North Vancouver. Deposit, Canadian Bank of Commerce, $14,030.12.
Canada Permanent Trust Company	25,000 00	Canadian Pacific Railway Company's 6% Notes Nos. M. 53270 to 53293 and 53890, for $1,000 each.
Canadian Financiers Trust Company	50,000 00	Mortgage, Vancouver realty.
Continental Trust Company	25,000 00	*Bond, Guardian Casualty and Guaranty Co.
Colonial Trust Company	50,000 00	Bond, Employers Liability Assurance Corporation.
Dow Fraser Trust Company	75,000 00	War Loan Bonds, $7,000; Debentures, $68,419.97.
General Administration Society of Montreal	75,000 00	Bond, Globe Indemnity Company of Canada.
Imperial Canadian Trust Company	25,000 00	Assignment of mortgage.
Japan and Canada Trust Savings Company, Ltd	150,000 00	Assignment of Mortgages and 35 War Loan Bonds, $1,000 each.
Mercantile Trust Company of Canada	25,000 00	City of Victoria Debentures, $20,000; Dominion of Canada War Loan Bonds, $3,000; Province of B.C. Debentures, $5,000.
Michigan Trust Company	25,000 00	Municipal Debentures, $31,000.
Montreal Trust Company	200,000 00	Deposit Receipt, Royal Bank of Canada.
National Finance Company, Ltd	125,000 00	Conveyance of 8 lots, Vancouver City, subject to mortgage of $35,000.
National Finance Trustee, Ltd	25,000 00	*Bond, United States Fidelity and Guaranty Co.
National Trust Company	200,000 00	Bond, Imperial Guarantee and Accident Insurance Co. of Canada.
Northern Trusts Company	25,000 00	Victory Bonds, $25,000.
Okanagan Loan and Investment Trust Company	25,000 00	Victory Bonds, $25,000.
Prudential Trust Company, Ltd	150,000 00	Municipal Debentures, $28,500; Bond, National Surety Co. of New York, $125,000.
Royal Trust Company	200,000 00	Deposit Receipt, Bank of Montreal.
Standard Trusts Company	125,000 00	Bond, Employers Liability Assurance Co., Ltd., $25,000. Bond, Canada Accident and Fire Assurance Co., $100,000.
Sterling Trust Company	25,000 00	Assignment of 2 mortgages, Vancouver realty.
Toronto General Trusts Corporation	75,000 00	Bond, Dominion of Canada Guarantee and Accident Insurance Co.
Trustee Company, Ltd.	25,000 00	*Bond, National Surety Co. of New York.
Trust Company of Victoria	25,000 00	*Bond, National Surety Co. of New York.
Vancouver Trust Company	50,000 00	Assignment of mortgages, New Westminster District.
Westminster Trust Company	150,000 00	44 Glen Valley Dyking Bonds, $22,000. Mortgage of New Westminster City property, $170,000, subject to encumbrance of $30,000 on account of unpaid instalments of purchase price.
Yorkshire and Canadian Trust, Ltd	200,000 00	Bond, Canada Accident and Fire Assurance Co.

* Bonds not good for new business at this date, but are held as security in respect of business previously existing, arising, contracted, or entered into during the period of their currency.—A. N. M.

Certified.

A. N. MOUAT, C.A.,
Comptroller-General.

W. J. GOEPEL,
Deputy Minister of Finance.

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VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

PROVINCE OF BRITISH COLUMBIA

TWENTY-FIFTH REPORT

OF THE

PROVINCIAL BOARD OF HEALTH

INCLUDING

TENTH REPORT OF MEDICAL INSPECTION OF SCHOOLS AND THE FORTY-NINTH REPORT OF VITAL STATISTICS DEPARTMENT

FOR THE

YEAR ENDING JUNE 30TH, 1921

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

PROVINCIAL BOARD OF HEALTH,

VICTORIA, B.C., June 30th, 1921.

To His Honour WALTER CAMERON NICHOL,

Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Report of the Provincial Board of Health for the year ending June 30th, 1921.

J. D. MACLEAN,

Provincial Secretary.

REPORT *of the*
PROVINCIAL BOARD OF HEALTH.

PROVINCIAL BOARD OF HEALTH,
VICTORIA, B.C., July 31st, 1921.

Doctor the Honourable J. D. MacLean,
Provincial Secretary, Victoria, B.C.

SIR,—I have the honour to submit the Twenty-fifth Annual Report of the Provincial Board of Health.

In submitting my report on health matters for the year 1916, I said:—

"The problems that present themselves to the Board of Health from year to year vary only in degree. The importance to the community at large of health problems in general is beginning to be more recognized by those particularly affected, and that is by the average citizen.

"The changes as regards the management of health problems that have taken place during the past few decades are the result of experience gained as our knowledge of conditions increased. These changes of our treatment of these cases may be summarized by dividing Health Board activities into periods:—

"The first period was that of general sanitation, when the departments were chiefly concerned with water-supplies, sewage-disposal, street-cleaning, etc.

"The second period of quarantine enforcement.

"The third period of applied bacteriology. This period showed the beginning of the work in the prevention of disease.

"The fourth period was that of social analysis of disease, chiefly concerned with the congested masses of poverty-stricken humanity.

"Consideration of these aspects of health-work naturally led to the next period, that of personal hygiene and education, and which is now only beginning. The foundation of this latest phase of Health Department work is the idea of the prevention of disease as distinctive from its cure. With the emphasis placed more on the preservation of health and less on the cure of disease, the public is coming to realize how essential to health is 'the futility of treating the disease and tolerating the cause.'

"We have endeavoured to show in these reports that the Health Board is appreciative of the changes that have taken place in regard to the management of health matters. The essential change is this, and I am quoting from the 'New Public Health,' by Dr. Hill, Medical Health Officer of London, Ontario, in which he says: 'The old public health was concerned with the environment, the new is concerned with the individual; the old sought the sources of infectious diseases in the surroundings of man, the new finds them in man himself.'"

What we hoped for in 1916 was for the opportunity to present our problems to the public in such a way that they would recognize their practical application to every-day life, and we have made progress that, while the results are not spectacular, yet they are such as to assure us that the foundation has been laid which will bring within appreciable reach the goal for which we are striving.

The awakening of the public conscience and securing the encouragement of an intelligent public opinion to bring about through the practical application of our health laws the increased length of life, increased productive capacity of the human asset, decreased sickness and misery, and bring about the culmination of national prosperity produced by happy, healthy, contented people.

The different recommendations that have been made to yourself during the past five years have received very careful consideration, and your Department desires to express its appreciation of the encouragement and practical help that we have received in carrying out such recommendations as you approved of.

Besides the general work of your Board, which has increased very rapidly, particular effort has been given to the work outlined to you as regards Child Hygiene, Public Health Nursing, and the development of the venereal treatment branch of the Board. I will deal with these as follows:—

(*a.*) *Child Hygiene.*—Child-hygiene work has been carried on throughout the Dominion of Canada in a sporadic manner, and those more especially interested realized that concerted action was necessary in order that the work might be standardized and a general scheme adopted for application in all parts of the Dominion.

The Canadian Public Health Association was the first to move in this direction, and as a result of their suggestion a conference was held of representatives of all of the voluntary organizations in Canada, resulting in the formation of the Canadian National Child Welfare Association.

Briefly, the plan is that this association shall act as the parent body; that each Province will form a Provincial organization, and the work in the Province will be managed locally.

A child-hygiene organization was formed in British Columbia, not with the idea of starting a new activity, but with the idea of utilizing the services of the voluntary organizations already organized, and who had been showing interest in this work.

The Women's Institutes and the I.O.D.E. of British Columbia had been devoting some attention to the work, but other than an occasional Baby Show had not been able to bring about concerted action. On an appeal being made to the Women's Institutes, health committees were formed and the Department has secured the active support of members who have toured different sections of the Province in order to stimulate the work along these lines.

British Columbia was the first Province in Canada to adopt compulsory medical examination of school-children, but no provision had been made for prenatal work and care of the child after birth until they reach school age.

The present organization is actively engaged in this work. The Provincial Board is supplying all the literature necessary, keeping in touch with the central organization, and utilizing the services of the Public Health Nurses who are being placed in the field for carrying on this work. A comprehensive scheme for teaching the health principles to the school-children has been adopted and will be shortly incorporated in the schools with the assistance of the local women's organizations.

The registration of births is compulsory, but registration of pregnancy has not yet been adopted, but through the voluntary organizations we are trying to work up the scheme of voluntary registration of pregnancy. Names and addresses of expectant mothers are forwarded to the Department and a series of letters go to them containing all necessary advice as to the prenatal care. This idea has been received with a great deal of favour. The Public Health Nurse is instructed to concentrate on child-hygiene work, working in conjunction with the Medical Inspector, using the Medical Inspector's records of his examinations as an introduction to the home. The reports that we receive show that the public are in a receptive mood, and the results are showing clearly that with patient and careful education of the public a successful issue is assured.

The infant-mortality figures for the Province as a whole have been higher than they should be, but, as against this, in our large cities of Victoria and Vancouver we have the lowest death-rate under one year of any cities in the Dominion. There has been a steady decline during the past few years in Victoria and Vancouver, which, in our opinion, is largely due to the persistent work of the Health Department assisted by the voluntary organizations.

The legislation provided by the Government is sufficient for all immediate needs, and will bring about the desired results if the departments concerned and the voluntary organizations will continue along the lines of educating the public. There must be an intelligent public opinion back of any legislation.

(*b.*) *Public-health Nursing.*—Two years ago the plans of the Government in regard to Public Health Nurses were given effect to and a beginning made by the establishment of a single Public Health Nurse.

The Government had made provision for the examination of the school-children, but it was found that, while this was carried out and was bringing about good results, as testified to by parents, teachers, and medical men, yet a great many children who should receive care and treatment were neglected for various reasons by the parents, and it was very strongly brought home to us that unless we had what is known as follow-up work we could not bring about the results that we desired.

The University of British Columbia established a Faculty of Nursing and in connection with this was established a Chair of Public-health Nursing, endowed by the Red Cross Society. It

was found to be absolutely necessary to have this training for the nurses if we were to be able to send out nurses understanding what public-health nursing means, and what prevention of disease really means.

The Red Cross, in carrying out their peace-time programme, assisted the Department by contributing to the support of the nurses until such time as the Government could make provision to carry on the work. The Government recognized the fact that public-health nursing, if the principle was once understood by the public, would be established in all parts of the Province, not as a charity, but as a self-supporting institution.

In order to give the people the opportunity of employing nurses in connection with the schools, an amendment to the "Public Schools Act" was passed which allowed the Boards of School Trustees to employ nurses on the same basis as they employ teachers, receiving from the Government the same financial assistance as they receive for their teachers.

Since the first nurse was sent out two years ago there have been fifteen nurses placed in the field. The idea is a new one to the people. Assistance is given to the district in some instances by the Red Cross and in others by the Government, and the Government, supplementing their amendment to the "Public Schools Act" placed in the Estimates for the Provincial Board of Health the sum of $12,000 to carry on this work, and our experience has been that once the nurse has been some months in the district there is no doubt as to the future. The people, once they understand the idea, have asisted in every way they can, and the requests are not to remove the nurse, but to send an additional nurse.

During the present year, on the first opportunity presenting, four of the districts have voted to employ a Public Health Nurse as school nurse, and the Department has allowed the grouping of schools in order that the proportion of the salary paid by the taxpayers may be spread over four, five, or six schools, and in this way make a very small addition to the taxes.

The child-hygiene work, while being a distinct work, yet is interwoven in its application with the public-health nursing, and particular directions are given to the nurses to emphasize this work.

The medical profession is co-operating and the Public Health Nurses are endeavouring to establish clinics at their headquarters where defects in the school-children can be remedied, and a particular effort is being made to deal with the dental question.

Reports from our Medical Inspectors show an appalling condition of affairs. In two of the centres dental clinics have been established. Representations have been made to the dentists, who have met the Department in a splendid way, and it is hoped to be able to work out a practical scheme whereby the dental needs, especially in the outlying districts, will be met.

(*c.*) *Venereal Disease.*—The Legislature passed in 1919 "An Act for the Suppression of Venereal Diseases," which was brought into effect in March, 1920.

The venereal-disease problem, being one not peculiar to one locality, representations to the Federal Department of Health by the Provincial Boards of Health resulted in the recognition of the fact that these diseases must be treated as a nation-wide affliction, and a standard plan was adopted providing for the establishment of clinics for free treatment, the formation of local organizations in order to have a medium whereby the public might be reached, and an educational propaganda conducted. The Dominion Department of Health, recognizing the national aspect of the question, agreed to provide a certain amount of financial assistance in the establishing of the clinics and the carrying-out of the educational propaganda.

The Government of British Columbia recognized the fact that it would be unwise to create public sentiment or carry on educational work until facilities for the treatment had been provided, and two clinics were established, one in Vancouver and one in Victoria. These were placed under the charge of experts, provided with all the facilities to carry out the treatment, and almost immediately the work was recognized by the public as a necessity and the attendance of patients began to grow.

The Government makes provision for free expert opinion, free treatment, free medicines (which is an expensive item), and free laboratory service.

In regard to the laboratory services, subsidies were paid by the Government to the laboratories of the Vancouver General Hospital and the Jubilee Hospital, amounting to $8,000 annually, to provide free laboratory services in connection with the venereal work, but the Government went farther and have provided free laboratory services for the medical profession in all matters in connection with public-health work. Not only is free treatment provided in the clinics, but

the Act requires that all medical men shall report venereal cases by number, not by name, secrecy being preserved, and they are entitled to free medicines for their private patients, also free laboratory services.

The beginning of this year, after the establishment of the facilities, it was deemed advisable to begin an educational campaign. A Provincial organization has been formed and leading citizens, recognizing the economic aspect of the question, have given their services voluntarily, and series of meetings are being held, literature is being distributed which is provided by the Department, and a decided impetus has been given to the work.

On Vancouver Island meetings have been held in the City of Victoria, voluntary organizations have been addressed, and twenty-seven points on the Island have been reached by our speakers.

Voluntary organizations have been formed on the Mainland, but the work has been more confined to Vancouver, although local organizations are being formed at various points.

It is the intention of the Department to establish clinics at one or two central points in the Interior, and active steps have already been taken in regard to the establishment of a clinic at Kamloops.

The work of the clinics has increased and it has been found necessary in Vancouver to double the accommodation. Active measures are being taken to follow up the work in order that patients may continue their treatment. Arrangements are carried out whereby patients leaving the Province can continue treatment in other clinics, and when any patient comes from other Provinces to us we are notified by the clinic at which they have been treating of the British Columbia address, and they are immediately looked after.

The medical profession does not as yet appreciate the value of the work that we are doing and has not given that co-operation which is absolutely essential if the Dominion-wide plan of the health authorities is to be carried out.

The small expenditure for this work should not be criticized when it is remembered that 12 per cent. of all hospital patients are in the hospital as a result of venereal disease; 25 per cent. of our patients in the asylum are there as a result of the same affection, and if the taxpayers would realize that the cost of these patients in the asylum will in eight years amount to $500,000 cash outlay they will appreciate the fact that the small expenditure to provide prevention is a sound business investment.

The great increase in the work of the Department itself shows the awakening of public opinion, and our activities have been directed along the lines of stimulating this awakening, as we have recognized that the Government or the Department cannot do much unless there is an intelligent and insistent demand on the part of the public for the enforcement of the laws of British Columbia in regard to health.

Infectious Diseases.—During the past year the reports of infectious diseases have shown a marked decrease as regards smallpox, diphtheria, chicken-pox, whooping-cough, and measles. There was an increase in the number of typhoid cases reported amounting to fifty, due to the outbreak in three lumber camps situated at widely separate points in the Province. These three camps accounted for thirty-four of the increase. A strict examination was made and in each of these cases the cause was from the presence of carriers in the kitchens. The occurrence of typhoid fever in British Columbia shows a most satisfactory decline during the past ten years, dropping by gradual degrees from 102 deaths in 1910 to nine in 1920. For the year July 1st, 1920, to June 30th, 1921, there have been twenty deaths, the increase being due to the attacks mentioned above.

Smallpox and chicken-pox, of which there were reported last year 576 smallpox and 1,036 chicken-pox, have dropped this year to 137 smallpox and 802 chicken-pox.

A table of infectious diseases reported during the year is incorporated in this report, in addition to which epidemics were reported as follows:—

Chicken-pox—Smithers, Creston, Chilliwack, Trail, Kelowna, Ashcroft, Sooke District, and Oak Bay.

Measles—Crowsnest, Duncan, Lucerne, Chilliwack, Saanich, Crofton, Port Alice, Kamloops, Trail District, Kelowna, Powell River, Cranbrook, Greenwood, and New Bella Bella.

Mumps—Nelson, Ocean Falls, Kamloops, Kelowna, Cranbrook, and Port Coquitlam.

Whooping-cough—Ocean Falls, Trail District, Alberni, and Greenwood.

Vaccination has been recommended and pushed as much as possible. Unfortunately, there is a very active and clamorous minority trying in every way to thwart the efforts of the Board in regard to vaccination.

The decrease in the number of deaths and the increase in the number of births noted last year has continued, and the figures are set forth in the report of the Vital Statistics Branch, which accompanies this report.

The reports of the Sanitary Inspector and the Travelling Health Officer, also the report of the Medical Inspection of Schools, are appended.

The work done in the Sanitary Inspection Department has been of a most satisfactory character. Our Chief Sanitary Inspector, Mr. DeGrey, has been unremitting in attention to his duties, and with the careful and thorough co-operation of the Provincial Police the complaints in regard to the insanitary conditions in the camps are becoming less and less. In addition to the work throughout the camps, the Sanitary Department has in constant use the launch "Sanita," visiting the numerous camps situated along our extensive sea-coast, and particular attention is being given to the sanitation of the summer resorts. These are growing in number and increasing in size and particular attention has been given to laying the basis for their future sanitary care.

The following vaccines and serums have been sent out from the Board during the past year: Smallpox vaccine, 4,450 points; typhoid vaccine, 665 doses; diphtheria antitoxin, 893,000 units; tetanus serum, 61,500 units.

Cemeteries approved: Cortes Island, Vancouver (located in South Vancouver), Chilko, and Francois Lake.

Water-supplies approved: Prince George Extension, West Summerland Extension, Rossland Extension, Burnaby, Coquitlam Extension, Cassidy, Anyox, and Sidney.

Special health district created: Fernie.

Sewerage approved: Anyox, Rossland Extension, Ioco, and Powell River.

The advances made in our work have been very gratifying, and we are confident that during the coming year the extensions in the new departments which have been created will more than meet with our expectations.

The women's organizations of the Province have been especially active, and more so as regards the Women's Institutes are they turning their attention to the social questions. Their requests in regard to legislation have met with the hearty sympathy of the Government, and they are now realizing that their chief efforts should be directed to creating an intelligent public opinion which will ensure the enforcement of the Acts at present on the statute-books.

The work of the Department has increased materially during the past year, but this increase has been well handled by our present staff, and I would desire to take this opportunity of expressing my appreciation of the hearty co-operation which I have received from them.

To the encouragement which you, as Minister of the Department, have given us much of our success is due.

I have the honour to be,
Sir,
Your obedient servant,
H. E. YOUNG,
Provincial Officer of Health.

TABLE SHOWING RETURNS OF CASES OF CONTAGIOUS DISEASES IN THE PROVINCE.

District.	Infantile Paralysis.	Tuberculosis.	Mumps.	Leprosy.	Typhoid Fever.	Scarlet Fever.	Smallpox	Diphtheria.	Chicken-pox.	Whooping-cough.	Scarlatina.	Erysipelas.	Measles.	Sleeping Sickness.
Abbotsford							1							
Agassiz and District								1						
Alert Bay													2	
Anyox			75		1	1			50	40				
Ashcroft and District			1		1		12		5				2	
Boulder Creek					11									
Bradner						2								
Burnaby		6	98		1	14		5	80	2			67	
Campbell River					7									
Cawston		1											1	
Chase and District						2		1					6	
Chilliwack			8		1	2		2					11	
Clayoquot									8	3				
Coal Creek						1								
Corbin					2	2								
Cranbrook					3			9						
Creston		2			1				1	1				
Cumberland						3				8		1		
Duncan and District			1			14		2						
Edgewood and District		1				1					1		6	
Enderby		2												
Esquimalt		1	20			1			25	2			1	
Fernie and District						7								
Field			3						2				2	
Francois Lake			1											
Grand Forks			6				4			20			20	
Greenwood										1				
Hazelton and District			10		2				5				2	
Hedley and District		1					1							
Invermere		1											2	
Islands District					1			1		3				
Kamloops and District					7	14	5	5						1
Keremeos								8					1	
Ladner			21						4				10	
Ladysmith							1	1						
Lake Buntzen							2							
Lucerne													12	
Maple Ridge		1				10								
Merritt and District					1		2	1	4				5	
Michel		1				30							1	
Mission and District						6		5					7	
Nakusp													3	
Nelson and District			3			2		4	1				4	
New Bella Bella												1		
New Denver		2												
New Westminster							1							
Oakalla							2							
Oak Bay						3	2							
Okanagan Landing								2						
150-Mile House									3					
Parksville			1						1				4	
Penticton		6	10		1	4			96				1	
Pitt Meadows						2								
Port Alice						1							9	
Port Coquitlam						6								
Powell River			4		2				4					
Prince George					1	1	17			3				
Prince Rupert												1		
Princeton and District							5							
Qualicum										2			1	
Quesnel													1	
Revelstoke and District		1	139		4		1			40			10	
Saanich		3		1	1	7		12	23				69	
Salmon Arm							1							
Sandon		1												
Shawnigan Lake									3	6				
Sidney										4		2	6	
Silverton					3									
Smithers		21				2			35		3		2	
Sooke		1				15				12			14	
Stewart		1												
Swanson Bay									1				1	
Telegraph Creek													127	
Terrace					9		1							
Tofino										3				
Trail and District					3	2		4		10				
Vancouver		273	794		27	222	66	174	256	51		25	208	
Vancouver, South		16	261		2	54	8	25	113	23			56	
Victoria		88	8		4	14	5	7	78	43			47	
Williams Lake									4					
Woodfibre										10			12	
Totals		430	1,464	1	96	445	137	269	802	287	4	30	733	1

GENERAL REPORTS.

SANITARY INSPECTION.

SANITARY INSPECTOR'S OFFICE,
VICTORIA, B.C., July 31st, 1921.

H. E. Young, M.D., C.M., LL.D.,
Provincial Officer of Health, Victoria, B.C.

SIR,—I have the honour to submit for your consideration my Eleventh Annual Report on Sanitary and Quarantine Work for the Provincial Board of Health.

The outstanding feature of this branch of your Department is the inspection of logging, mining, and industrial plants located in unorganized territory and chiefly along the vast coast-line of British Columbia.

Years of sanitary-welfare propaganda by departmental regulations, inspections, and an occasional Court scene, coupled with the co-operation of 80 per cent. of operators and employees, have brought about such improvements in British Columbia's industrial camp or community life that it has been referred to in very complimentary terms by industrial-welfare leaders and press in many parts of this continent; even the rabid industrial "grouch" admits that British Columbia is a leader for good sanitary conditions.

But we are by no means so satisfied as to rest on our oars of prophylactic effort. With the valuable aid of our Provincial Police officers the work continues, and the progress of this far last West keeps abreast of the world unhampered by any serious infectious outbreaks affecting public health.

The drainage and sewerage of some of our large industrial centres and Interior cities have engaged our serious attention during the past year with much success. Careful observation of sewage-disposal plants at several of our growing cities indicate the necessity of serious attention along expansive lines in order to take care of increasing population. I would respectfully suggest that many of our progressive municipal bodies be reminded of this growing though unseen and usually unthought-of necessity and yet important factor in their future growth.

Less than a decade ago the septic tank was hailed as the cure-all in sanitary circles; its adoption and almost general use brought in its trail abuse and condemnation. Eighty per cent. of the trouble was the result of faulty construction and installation, 10 per cent. by improper proportions, and the balance through lack of attention. For isolated or camp use there is no question as to the value of a septic system, and in towns it is practical, provided it is designed and installed correctly. It should be remembered that a septic tank is a sewage-disposal plant and not intended to take care of grease, lye, or other chemical agents.

This branch of your Department has been called upon many times to examine and report on defective heating, ventilating, and sanitary conveniences of some of our public schools. Many glaring examples of costly mistakes and unnatural methods along those lines have been exposed. It is not a pleasant duty to find fault with work or goods accepted as O.K. by well-meaning and good-intentioned public bodies (mostly honorary), and in order to protect them from an aftermath of criticisms, and also the health of our future citizens, I beg to suggest that some means be taken by the Honourable the Minister of Education that no Government aid be accorded to any proposed school or public building unless the plans and specifications have been approved by the Provincial Board of Health.

The matter of improved drainage for many of our unincorporated towns cannot with safety be longer deferred. May I suggest that this problem in its angles of responsibility be taken up with the Honourable the Minister of Public Works.

WATERSHED PROTECTION.

This important branch of our work has been cared for with gratifying results, and two-thirds of our population have been protected from water-borne disease through the thorough yet silent enforcement of our watershed regulations. Logging and mineral development upon the larger watersheds adjacent to Greater Vancouver will necessitate increased vigilance, and this growing responsibility demands our most serious and immediate consideration. Some slight amendments

are now being drafted to meet changing conditions. The installation of chlorination plants for some of our water-reservoirs should engage the attention of our Municipal Health Boards if the enviable high standard of British Columbia's drinking-water is to be maintained.

What threatened to be a serious infectious epidemic at one of our important coastal industrial plants was effectively controlled almost at its starting-point and was stamped out. This was accomplished through the prompt reporting of first case and the availability of our own quarantine launch, which was placed in commission immediately with highly satisfactory results.

NUISANCES.

Nuisances resulting from increasing industrial development of our fisheries and chemical resources have demanded our attention. In many instances well-meaning public boards in their endeavours to encourage industries have overlooked the probable aftermath of smoke, soot, odours, and befouling of foreshore. Efforts made to abate these undesirable evils present many difficult problems, all of which would be greatly minimized if a well-isolated location had been chosen for the site of the works.

Experiments along the line of condensation are being made at several oil and guano factories and the results are being noted for future reference and action.

One of the most difficult angles of our work at this time is the sanitary supervision of our numerously growing summer resorts. Many of our summer camps select their temporary outdoor abode at the most convenient foreshore, regardless of legal rights or sanitary conveniences and often without ascertaining the quality or volume of drinking-water available. Frequent visits are made to all such places, advice given, notices posted, and the carrying-out of the sanitary regulations insisted upon.

Very little difficulty is experienced at those places which promise to be permanent, but in the immediate vicinity of the cities where there is great competition in the effort to secure a site where a tent may be pitched drastic measures will have to be adopted to enforce the sanitary regulations.

I have, etc.,
FRANK DEGREY,
Chief Sanitary Inspector.

TRAVELLING HEALTH OFFICER'S REPORT.

VICTORIA, B.C., July 31st, 1921.

H. E. Young, M.D., C.M., LL.D.,
Provincial Officer of Health, Victoria, B.C.

SIR,—I beg leave to submit the following summary of the public-health and sanitary work done by me from April 1st, 1920, to March 31st, 1921:—

April 2nd, 1920. Left Kamloops for Prince George to inspect camps about which complaints had been made.

April 6th. Inspected two camps at Langworth.

April 7th. Inspected mill camp of U.G.G. at Hutton.

April 9th. Inspected camp of L. A. Johnson, Rausch Valley.

April 10th. Inspected school premises at McBride and a small mill camp.

April 12th. Inspected sanitary conditions of school premises in Miller Addition, Prince George.

April 14th. Inspected school premises at Vanderhoof.

April 19th. Sought cause of typhoid cases occurring in Terrace some two months ago. Found pollution of stream by one Viger. Inspected three mill camps at Usk.

April 20th. Inspected mill camp at Pitman Spur and mill camp of Kitsumgallum Lumber Co. at Remo.

April 21st. Inspected mill and logging camps of Lakelse Lumber Co. and Geo. Littler Mill camp at Terrace.

April 22nd. Inspected school premises at Terrace.

April 25th. Inspected sanitary condition of Stewart.

April 28th. Inspected two mill camps at Port Clements and sanitary condition of the village. Also mill camp of Masset Timber Co. (1919), Ltd.

April 29th. Inspected two logging camps of Masset Timber Co. (1919), Ltd.

May 3rd. Inspected sanitary condition of Granby Co.'s camp at Anyox. Also conditions at Alice Arm.

May 25th. Inspected sanitary condition of Ocean Falls.

June 2nd. Inspected camp of Northern Construction Co. at Williams Lake.

June 3rd. Inspected two camps at Deep Creek.

June 4th. Inspected Camps 6, 8, and 9 of Murdock & Co.

June 5th. Inspected Camps 1, 2, 3, and 4 of Murdock & Co.

July 8th. Inspected site of proposed slaughter-house at Palmer, Esquimalt & Nanaimo Railway.

July 17th. Visited smallpox patients at Salmon Arm.

July 19th. Spent day on Okanagan Indian Reserve seeing cases recovering from smallpox.

July 22nd. Inspected two slaughter-houses in vicinity of Princeton.

August 8th. Examined sanitary condition of summer camp at Fish Lake.

August 18th and 19th. Inspected and reported upon sanitary conditions at Shawnigan Lake.

August 25th. Visited Baskin's mill camp on Porcupine Creek and gave instructions for building camp in conformity with the Health Regulations.

September 9th. At request of and in company of Dr. Corsan, of Fernie, visited mill camp of the White Spruce Lumber Co., and condemned existing source of water-supply.

September 11th. Inspected, at request of Dr. Weldon, local Officer of Health, and reported upon sanitary conditions at Michel and Natal.

September 17th. Inspected camp of O.I. & M. Lumber Co. on Boulder Creek, where some twelve cases of typhoid fever had developed during last two weeks.

September 24th. Visited and inquired into conditions of sufferers by forest fire on North Thompson River.

September 25th to 28th. Examined Tranquille Creek for possible source of typhoid infection.

November 3rd. At request of Constable Carr, inspected sanitary conditions at Burns Lake and visited slaughter-house in course of construction, and gave him instructions as to disposal of drainage therefrom.

November 6th. Inspected condition of main drain ditch at Smithers.

November 25th. Inspected camp of Whalen Pulp & Paper Co. at Swanson Bay.

December 18th. Inspected sanitary conditions of Indian reserve at North Vancouver.

January 4th to 23rd, 1921. Arrived at Terrace in connection with outbreak of typhoid fever. No physician resident in Terrace. Seven or eight cases had been sent to hospital before my arrival. Two patients had died. Later I sent two suspected cases, both of which proved to be severe cases of typhoid. Both recovered. Found case of smallpox in man aged 69, which had been thought to be chicken-pox, but he had been isolated. I remained at Terrace until he could be discharged. During my stay I acted as resident physician, treating all cases that presented themselves.

February 23rd. Examined school-children of Notch Hill who were suspected of having had scarlet fever.

March 5th. Examined outlet of septic tanks of Princeton Hotel and recommended carrying outlet-pipe to present channel of Tulameen River.

During the above period no serious outbreaks of infectious or contagious diseases occurred. Of those that came under my notice, the most severe were an outbreak of typhoid fever in a lumber camp on Boulder Creek, West Kootenay, in September, in which there were twelve or thirteen cases and one or two deaths, and another at Terrace in December, in which there were ten or eleven cases with two deaths. The source of infection was not definitely traced in either outbreak, but both died out quickly when proper protection of water and food supplies was instituted.

Again I wish to express my appreciation of the willing and efficient assistance given me by the Provincial Police whenever I have needed it.

I have, etc.,

E. C. ARTHUR,

Travelling Health Officer.

MEDICAL INSPECTION OF SCHOOLS.

PROVINCIAL BOARD OF HEALTH,
VICTORIA, B.C., July 31st, 1921.

Doctor the Honourable J. D. MacLean,
Provincial Secretary, Victoria, B.C.

SIR,—I beg leave to submit the Tenth Annual Report of the Medical Inspection of Schools for the Province of British Columbia.

In looking over past reports I find suggestions made as to the extension of the medical inspection of schools work, pointing out the difficulties which were presenting themselves and suggesting an extension of the policy which would provide remedies.

In 1918 I suggested the extension of the work by the appointment of qualified nurses to look after cases and also to follow up the work of the examination.

The examination of the Medical Inspectors had been carried out in a very satisfactory manner, but the one defect under the "Medical Inspection of Schools Act" was that the physician who made the examination was debarred from attending the case, and was obliged to be satisfied with a notice to the parents of the defects that were found at the examination of the pupil. The result was that, while the defects might be recognized and the parents' attention called to them, they did not realize the necessity of having the defects remedied, with the result that the children did not receive the necessary attention, and so the effect of the work was nullified. It was for this reason that I made the suggestion for the extension of the work by the appointment of qualified nurses.

The year following I was pleased to report that a beginning had been made in this respect, and that you had announced the policy of the Government to the effect that the Provincial Board of Health would be empowered to employ public-health nurses in order to act as a medium between the physicians and the parents. Nurses trained in public-health work could explain to the parents any of the defects discovered by the doctor and also point out the evil effect of neglect.

The University of British Columbia has established a public-health course for nurses, the chair of which was endowed by the Provincial Branch of the Red Cross.

In 1920 the first class graduated, and we have at present fifteen nurses in the field. Another class is undergoing training, numbering about twenty, and we will be able to place all of these nurses. The Women's Institutes as a voluntary organization have come up to our expectations in their efforts to co-operate with the Department.

The public-health nurses are instructed to make the school-inspection work the important part of their duties, and not only are they carrying this out, but they are beginning to form in the schools health classes where the rules of health are taught to the children in such a form as to ensure their interest and to stimulate their participation in the carrying-out of the standard rules of health.

The Women's Institutes have formed health committees, and not only is the care of the school-child looked after, but the programme of child-hygiene begins with prenatal care and continues through the child's life until he leaves school.

We have made substantial progress during the past three years owing to the great awakening of public conscience in health matters, and now enforcement of the Act is backed by intelligent public opinion.

There may, and probably will, be set-backs peculiar to the inauguration of new work, but we look for a very much more rapid progress on account of the fact that the women's organizations are taking such interest.

We have made progress, but it has been slow. At times it was disappointing, but we can look back and see we have made a good foundation, and our previous work has not been in vain. Our school population is increasing rapidly, and unfortunately, owing to financial stringency, there has been a reluctance on the part of the people to incur the expenditure necessary to provide increased accommodation. This will result in makeshifts in regard to seating capacity, and especially so in regard to the sanitary conditions of the schools. The Department is keeping very close watch, and where gross defects are reported the Board of School Trustees affected are immediately communicated with.

They are evincing an earnest desire to meet the provisions of the necessary requirements, and with the improvement of economic conditions will build so as to keep pace with the great increase in population.

This year we have examined 12,400 more pupils than in 1919.

I wish to express my great appreciation of the interest taken and the assistance rendered by the Women's Institutes. Their organization is beginning to be a great power in the land and they are more and more evincing interest in everything pertaining to the home and children.

The reports from the medical men have been, during this past year, the most satisfactory the Department has ever received.

I am submitting a detailed report of the schools examined.

I have, etc.,
H. E. Young,
Provincial Officer of Health.

SCHOOLS INSPECTED.

Medical Inspectors: 154.
Reports from Medical Inspectors: 128.

High Schools.

High schools. 1919–20, 45: Reported, 19. 1920–21, 52: Reported, 30.
Pupils inspected: 1919–20, 2,020; 1920–21, 3,049, an increase of 1,029.

Graded City Schools.

Cities, 35. 1919–20: Reported, 23; not reported, 12. 1920–21: Reported, 25; not reported, 10.
Pupils inspected: 1919–20, 27,278; 1920–21, 32,392, an increase of 5,114.

Rural Municipal Schools.

Municipalities, 27. 1919–20: Reported, 20; not reported, 7. 1920–21: Reported, 21; not reported, 6.
Pupils inspected: 1919–20, 13,154; 1920–21, 18,159, an increase of 5,005.

Rural and Assisted Schoools.

Schools inspected: 1919–20, 442, at a cost of $7,041.50. 1920–21, 438, at a cost of $9,574.25.
Schools not inspected: 1919–20, 108; 1920–21, 169.
Pupils inspected: 1919–20, 9,955; 1920–21, 11,231, an increase of 1,276.
Cost of inspection per pupil: 1919–20, 71 cents; 1920–21, 85 cents.
Percentage of defects: 1919–20, 91.52; 1920–21, 93.98, an increase of 2.46.

HIGH

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Chilliwack	J. C. Henderson		124	124	....	....	4	1	....	6	12
Courtenay	F. W. Manning		.....	20	....	....	5	....	....	2	6
Cranbrook	J. J. McClintock		78	78	....	....	....	....	....	....	2
Cumberland	G. K. MacNaughton		34	32	3	....	5	1	1	....	4
Esquimalt	J. S. McCallum	Miss Morrison	52	52	1	....	11	1	1	6	4
Delta:											
Ladner	A. A. King		36	34	1	....	6	....	2	2	4
Grand Forks	W. Truax		74	74	....	....	3	....	....	....	2
Kamloops	M. G. Archibald		71	69	....	....	....	....	....	....	6
Kelowna	W. J. Knox		82	82	....	....	3	7	2	1	2
Langley:											
Murrayville	B. B. Marr		36	33	..	...	2	....	....	....	....
Mission City	A. J. Stuart		34	30	1	....	2	....	....	....	6
Nanaimo	W. F. Drysdale		120	115	3	....	10	1	...	7	25
Nelson	Isobel Arthur		198	170	....	....	25	1	9	13	18
New Westminster	J. G. McKay	Miss Stark	345	341	5	....	29	1	....	57	57
Peachland	Wm. Buchanan		14	13	....	....	4	....	....	....	....
Point Grey:											
Magee	T. H. Lennie		158	154	5	....	18	...	4	3	21
Prince of Wales	"		128	128	7	....	23	....	8	7	18
Prince Rupert	H. E. Tremayne		68	64	....	....	3	....	....	....	2
Revelstoke	J. H. Hamilton		117	117	....	....	5	1	....	....	3
Rossland	J. W. Coffin		71	71	....	....	2	....	....	....	2
Summerland	F. W. Andrew		61	43	1	....	6	....	...	2	4
Trail	J. B. Thom. (Results included in Public School Report.)										
Vancouver:											
Britannia	Drs. Wightman and Wilson		468	199	....	....	23	1	4	2	8
Cecil Rhodes	Drs. Wightman and Hogg		223	65	....	....	9	2	1	1	7
King Edward	" "		802	170	....	....	24	1	....	1	12
King George	" "		417	56	...	....	5	1	....	....	2
Kitsilano	" "		285	80	....	....	7	1	....	....	2
Vancouver, North	E. A. Martin,	Miss Brown	208	208	....	....	2	2	2	2	43
Vancouver, South	L. O. Griffin	" E. Edwards	438	433	9	....	59	10	9	1	10
Vernon	W. Arbuckle		80	74	....	....	1	...	....	....	3

GRADED CITY

Alberni	A. D. Morgan		97	97	2	....	4	....	1	4	7
Courtenay	F. W. Manning		.....	98	2	....	3	5	11	11	37
Cranbrook:											
Central	F. W. Green		460	460	....	....	14	....	....	....	31
South Ward	"		.....	79	....	....	8	....	....	2	10
Kootenay Orchards	"		28	25	....	1	2	....	....	3	4
Cumberland	G. K. MacNaughton		463	451	193	35	56	48	55	20	120
Enderby	H. W. Keith		208	169	....	....	22	....	10	10	95
Grand Forks	W. Truax		421	415	2	1	24	1	18	6	35
Kamloops	M. G. Archibald		639	638	14	....	8	1	23	26	75
Kelowna	W. J. Knox		484	484	6	1	19	6	15	12	16
Ladysmith	J. E. Montgomery		.....	390	1	....	6	1	50	50	50
Merritt	G. H. Tutill		375	352	4	....	12	....	11	14	72

SCHOOLS.

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
25	...	23	Cardiac, 1	....	....	....	....	Measles, 2	Good	Yes.
12	....	7	.....	....	....	....	....	.....	"	O.K.
1	....	3	.....	....	....	....	....	.....	.....	.....
8	5	4	Anæmic, 1; cardiac, 1; cyanosis, 1; irregular teeth, 3; wax in ears, 6; defective speech, 1	....	....	....	....	.....	Good	Good.
18	1	1	Orthopædic, 2	...	....	...	....	Mumps, 3	Drafty and unevenly heated	Clean; adequate.
1	....	12	.....	....	....	....	....	Mumps, 4	Good	Adequate; clean.
8	1	....	.....	....	....	....	....	Measles	Fair	" "
18	....	27	.....	....	....	....	....	.....	Good	" "
3	2	4	Chorea, 2; cardiac, 1; flat feet, 1; anæmia, 2	....	....	....	....	Mumps, 6; chicken-pox, 4	"	" "
3	....	3	.....	....	....	....	....	.....	"	Good.
8	....	....	.....	....	....	....	....	Scarlet fever, 1	Unsatisfactory	Adequate; clean.
30	....	15	Orthopædic defects, 2	....	....	....	....	Measles, 5; mumps, 1	Poorly ventilated	" "
48	.	28	Heart murmur, 1; curvature of spine, 1; infantile paralysis, 1	....	....	....	....	Mumps, 6	Good	" "
69	66	46	Pulmonary, 1; infantile paralysis, 2; strabis, 2; cardiac, 1; orthopædic, 2	...	....	....	...	.....	"	Good.
1	....	10	.....	....	....	....	....	.....	Satisfactory	Satisfactory.
6	...	39	Cardiac, 12; anæmic, 2	....	....	....	....	Mumps, 4	Good	"
5	1	39	Cardiac, 11; orthopædic, 1; anæmic, 3	....	....	....	....	Mumps, 5	Crowded	"
5	...	1	.....	....	....	....	....	Mumps and chicken-pox	Adequate	"
2	....	1	.....	....	....	....	....	.....	Good	Good.
4	3	2	.....	....	....	....	....	Measles, 6	"	"
9	3	18	Acne, 2; cardiac, 1; anæmic, 1	....	....	2	..	Mumps, 2	Disgraceful	Fair.
80	.....	31	Vaccinated, 120; cardiac, 18	....	....	....	....	Scarlet-fever, 1; mumps, 13	Fair ventilation	Clean; adequate.
4	....	2	Vaccinated, 27; cardiac, 3	....	....	....	..	Measles, 1; mumps, 3; diphtheria, 1	"	" "
33	....	11	Vaccinated, 51; pulmonary, 3; cardiac, 5	....	....	....	....	Chicken-pox, 1; mumps, 21; scarlet-fever, 2	"	" "
7	....	4	Vaccinated, 32; pulmonary, 5	....	....	....	....	Chicken-pox, 1; mumps, 38	Poor ventilation	" "
10	....	6	Vaccinated, 22; pulmonary, 2	....	....	....	....	Mumps, 3	"	" "
18	....	12	Cardiac, 3	....	....	....	....	.....	Adequate	" "
158	24	62	Cardiac, 11; nervous, 1	1	...	....	....	Chicken-pox, 1; mumps, 17; whooping-cough, 1	Satisfactory	Satisfactory.
4	....	3	.....	....	....	....	....	Mumps and measles	Good	Clean.

SCHOOLS.

42	7	3	.....	....	....	....	....	.....	Good	Clean; adequate.
57	10	11	Cardiac, 4	....	....	....	....	.....	"	O.K.
60	3	17	Curved spine, 1; paralysis of leg, 1	....	....	....	..	.....	.....	.....
4	1	1	Cardiac, 1	....	....	....	....	.....	.....	.....
5	....	....	.....	....	....	....	....	.....	.....	.....
363	205	15	Wax in ears, 120; catarrh, 56; anæmia, 36; blepharitis, 15; cardiac, 6; skin-disease, 14; nasal growth, 1; pulmonary, 3; orthopædic, 4; kidney-trouble, 1; stammering, 2; paralysis, 1	5	1	1	....	Measles; scarlet-fever; whooping-cough	Good	Clean; adequate.
61	2	64	Conjunctivitis, 2; mitral murmur, 1	....	....	....	....	.....	"	Yes.
70	22	3	Valvular heart trouble, 2	2	4	4	1	Measles; mumps	Crowded	Clean; adequate.
292	28	89	Feeble-minded, 2; cleft palate, 1; nervous and cardiac, 1	....	5	....	....	" "	Good	" "
25	11	22	Anæmic, 10; chorea, 8; flat feet, 7; club-feet, 3; cleft palate, 1; chronic bronchitis, 7; cardiac, 5; albino, 2	....	2	....	1	Mumps, 110; pink-eye, 11; chicken-pox, 35	"	" "
169	2	5	Nervous, 1; pulmonary 1; cardiac, 3	....	....	....	....	Whooping-cough; influenza; measles	"	Yes.
135	58	77	Cardiac lesions, 4	....	1	3	1	Measles, 3; chicken-pox, 2	Satisfactory	"

GRADED CITY

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Nanaimo:											
Central	W. F. Drysdale		498	487	....	....	16	....	....	34	124
Quennell	"		284	278	....	....	11	....	....	23	71
Middle Ward	"		168	165	....	....	4	....	....	13	57
South Ward	"		146	142	....	....	10	2	....	15	51
Nelson	Isobel Arthur		755	701	13	2	51	4	52	90	145
New Westminster:											
F. W. Howay	Drs. McKay and Clark	Miss Stark	465	425	21	4	34	6	4	129	129
Lord Kelvin	" "	"	305	274	17	10	16	4	2	104	104
Lord Lister	" "	"	339	320	17	2	19	2	3	65	65
Richard McBride	" "	"	420	391	31	3	20	2	2	130	130
Queensborough	" "	"	74	69	....	2	4	....	....	24	24
John Robson	" "	"	385	361	14	5	20	3	6	80	80
Herbert Spencer	" "	"	361	315	19	1	24	1	5	114	114
Port Alberni	C. T. Hilton		170	168	2	....	30	...	6	8	32
Port Coquitlam:											
Central	G. A Sutherland		147	142	....	....	19	6	8	27	32
James Park	"		79	64	....	....	7	....	6	6	7
Prince Rupert	H. E. Tremayne		677	636	4	3	12	3	27	24	81
Revelstoke:											
Central	J. H. Hamilton		238	225	....	1	17	....	5	6	26
Selkirk	"		332	321	....	....	12	1	7	15	42
Rossland	J. W. Coffin		447	447	....	....	5	3	1	4	10
Sandon	E. E. Topliff		38	38	....	....	1	....	....	1	24
Slocan	W. E. Gomm		54	53	2	1	16	1	....	6	10
Trail:											
Central	W. A. Coghlin		....	623	....	1	101	20	19	5	96
Tadanac	J. B. Thom		....	46	1	....	3	5	1	3	5
Trail, East	John Nay		....	19	1	....	4	2	2	1	4
Vancouver:											
Aberdeen	Drs. Wightman and Hogg	Miss Campbell	444	492	117	....	11	3	9	9	45
Alexandra	Drs. Wightman and Wilson	" Smith	662	617	123	....	31	8	4	3	31
Bayview	Drs. Wightman and Hogg	" Jukes	390	370	107	....	9	2	13	5	52
Beaconsfield	Drs. Wightman and Wilson	" Smith	375	314	47	....	11	3	3	4	31
Cecil Rhodes	Drs. Wightman and Hogg	" Ewart	448	437	122	....	5	5	6	1	33
Central	" "	" Campbell	815	666	134	....	26	3	10	3	75
Charles Dickens	Drs. Wightman and Wilson	" Smith	380	430	63	....	11	3	7	4	34
Children's Home	" "	" Cruikshank	119	111	....	....	5	....	2	1	5
Dawson	Drs. Wightman and Hogg	" Campbell	987	913	218	....	50	11	16	6	90
Fairview	" "	" Ewart	519	423	92	....	11	8	3	....	37
Florence Nightingale	Drs. Wightman and Wilson	" Stevens	748	706	180	....	34	8	8	13	82
Franklin	" "	" Cruikshank	305	218	61	....	5	4	3	2	8

SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
165	13	32	Orthopædic, 3; eczema, 4	3	2	2	....	Mumps, 7; whooping-cough, 19; measles, 26	Satisfactory	Yes.
106	7	35	Orthopædic, 3	....	....	1	....	Pertusis, 2; measles, 5; mumps, 4; whooping-cough, 2	"	"
77	4	4	Orthopædic, 1; eczema, 4	2	....	1	....	Measles, 25; whooping-cough, 20; mumps, 9	"	"
67	8	6		1	....	1	....	Measles, 9; whooping-cough, 1; mumps, 1	"	"
324	10	95	Chorea, 2; infantile paralysis, 1; heart-murmur, 1; talipes, 1	4	13	15	2	Mumps, 68; whooping-cough, 43; diphtheria, 2; pink-eye, 8; chicken-pox, 1	"	"
242	175	61	Chorea, 2; strabismus neurotic, 1; cardiac, 2						Good	Good.
193	189	10	Cardiac, 8; facial paralysis, 1; blepharitis and strabismus					Diphtheria, 8	"	"
130	120	40	Cardiac, 2; pulmonary, 1; orthopædic, 3; T. B. glands, 1					Scarlatina, 10	"	"
228	157	42	Cardiac, 10; orthopædic, 1; strabismus neurotic, 1	77	22	145	54	Chicken-pox, 59	"	"
42	47	8	Impetigo					Mumps, 227	"	"
188	157	31	Cardiac, 10; facial paralysis, 1; epilepsy; blepharitis; strabismus					Measles, 8	"	"
197	170	26	Cardiac, 3; orthopædic, 3; pulmonary, 1					Pertusis, 3	"	"
37	5	15	Anæmic, 4	....	....	....	1		Too crowded	Adequate; not clean.
44	23	9	Pulmonary tuberculosis, 3	....	....	....	....	Mumps, 101	Good	Good.
14	20	2	Pulmonary tuberculosis, 1	1	....	....	....	Mumps, 15	"	"
204	22	2	Undersized, 1	....	....	3	....	Mumps; chicken-pox	"	"
18	....	3		....	....	....	....		"	Fair.
16	1	8		....	....	....	....		"	Good.
44	9	6		....	....	1	....	Measles, 90; mumps, 1	"	Yes.
23	....	11		....	....	....	....		"	Clean; adequate.
8	4	12	Slight bronchitis, 1	....	....	....	....		"	" "
307	5	74	Flat feet, 4; cardiac, 23	6	....	....	6	Measles; whooping-cough	Crowded	Crowded.
8	....	5		....	....	....	....	Measles; whooping-cough	Good	"
9	....	6		....	....	....	....	Measles; whooping-cough	"	"
87	10	5	Vaccinated, 193: pulmonary, 3	....	....	....	....	Chicken-pox, 9; scarlet-fever, 3; mumps, 80; diphtheria, 1; whooping-cough, 4	Unsanitary; badly ventilated; crowded	Clean; adequate.
116	15	....	Vaccinated, 177; pulmonary, 6; cardiac, 13	....	....	....	....	Chicken-pox, 33; scarlet-fever, 4; whooping-cough, 1; mumps, 17	Fair ventilation	" "
40	6	8	Vaccinated, 104; pulmonary, 2; cardiac, 6	....	....	....	....	Scarlet-fever, 2; mumps, 74; whooping-cough, 11; diphtheria, 1	Good ventilation	" "
60	....	12	Vaccinated, 93; pulmonary, 2; cardiac, 5	....	....	....	....	Chicken-pox, 12; scarlet-fever, 2; diphtheria, 5; measles, 2; mumps, 59	" "	" "
53	3	3	Vaccinated, 148; pulmonary, 1; cardiac, 9	....	....	....	....	Chicken-pox, 8; scarlet-fever, 24; mumps, 48; diphtheria, 2; measles, 1	Fair ventilation	" "
111	17	12	Vaccinated, 120; pulmonary, 2; cardiac, 5	....	....	....	....	Chicken-pox, 4; scarlet-fever, 2; diphtheria, 2; measles, 17; whooping-cough, 4; mumps, 110	Bad ventilation	Made sanitary, 1920
88	1	10	Vaccinated, 131; pulmonary, 2; cardiac, 7	....	....	....	....	Chicken-pox, 23; scarlet-fever, 2; measles, 33; mumps, 17; diphtheria, 3; whooping-cough, 11	Fair ventilation	Clean; adequate.
28	1	3	Vaccinated, 8	....	....	....	....		Window ventilation only	" "
171	9	26	Vaccinated, 376; pulmonary, 2; cardiac, 9	....	....	....	....	Chicken-pox, 11; scarlet-fever, 2; diphtheria, 5; measles, 5; whooping-cough, 2; mumps, 160	Fair ventilation	" "
93	4	8	Vaccination, 110; pulmonary, 4; cardiac, 4	....	....	....	....	Chicken-pox, 2; scarlet-fever, 5; mumps, 91; whooping-cough, 4	" "	" "
132	2	24	Vaccinated, 255; pulmonary, 7; cardiac, 24	....	....	....	....	Chicken-pox, 18; scarlet-fever, 6; mumps, 87; measles, 2; whooping-cough, 10	" "	" "
37	1	3	Vaccination, 84; pulmonary, 2; cardiac, 6	....	....	....	....	Chicken-pox, 1; scarlet-fever, 1; diphtheria, 1; measles, 1; mumps, 22	Window ventilation only	" "

GRADED CITY

Name of School	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Vancouver—*Continued.*											
General Gordon	Drs. Wightman and Hogg	Miss Jukes	466	439	139	....	23	4	6	1	37
Grandview	Drs. Wightman and Wilson	" Smith	594	595	116	....	23	4	2	1	39
Hastings	" "	" Cruikshank	608	461	132	....	11	....	3	7	24
Henry Hudson	Drs. Wightman and Hogg	" Jukes	626	537	176	....	9	5	9	11	41
Kitsilano	" "	" "	468	396	116	....	14	7	4	10	40
Laura Secord	Drs. Wightman and Wilson	" Smith	476	452	101	....	23	4	5	2	21
Livingstone	" "	" Stevens	463	413	105	....	25	4	9	13	72
Macdonald	" "	" Cruikshank	535	504	86	....	24	3	4	8	29
Model	Drs. Wightman and Hogg	" Ewart	559	508	108	....	20	6	10	5	46
Mount Pleasant	Drs. Wightman and Wilson	" Stevens	742	686	194	....	59	6	12	5	79
Lord Nelson	" "	" Cruikshank	735	665	172	....	18	6	8	8	32
Lord Roberts	Drs. Wightman and Hogg	" Jukes	981	919	296	....	32	4	12	6	87
Seymour	Drs. Wightman and Wilson	" McLellan	846	780	158	....	42	1	7	6	51
Simon Fraser	Drs. Wightman and Hogg	" Stevens	635	541	154	....	28	14	13	11	76
Strathcona	Drs. Wightman and Wilson	" McLellan	979	970	167	....	47	4	6	3	81
Tennyson	Drs. Wightman and Hogg	" Ewart	635	573	103	....	12	8	8	5	62
Blind	Dr. Wightman	" Breeze	7	6	....	....	6	....	....	....	1
Vancouver, North:											
Lonsdale	E. A. Martin	" Brown	384	384	2	1	10	10	11	78	86
Queen Mary	"	" "	599	599	2	....	7	4	18	89	125
Ridgeway	"	" "	498	498	3	1	6	6	12	99	113
Vernon	Wm. Arbuckle	....	645	592	2	2	10	4	21	31	38
Victoria:											
Bank Street	H. J. Wasson	Mrs. J. A. Osborn	151	128	....	....	3	....	....	....	8
Beacon Hill	"	"	140	117	....	....	2	....	....	2	24
Burnside	"	"	223	201	....	....	....	3	....	2	21
Central, Boys	"	Miss S. J. Herbert	397	359	....	....	2	....	....	2	47
Central, Girls	"	"	454	431	....	....	1	....	....	2	28
Cook Street	"	Mrs. J. A. Osborn	23	21	....	....	....	....	....	....	2
Fernwood	"	Miss S. J. Herbert	58	58	3	....	....	....	....	....	17
George Jay	"	"	502	491	2	....	10	1	....	....	36
King's Road	"	Mrs. J. A. Osborn	168	143	....	....	....	1	....	1	14
Kingston Street	"	"	213	190	....	....	....	....	4	2	20
Margaret Jenkins	"	Miss S. J. Herbert	320	261	....	....	....	....	....	1	29
North Ward	"	Mrs. J. A. Osborn	382	313	....	....	5	....	....	2	23
Oaklands	"	"	478	431	....	....	2	....	....	1	48
Quadra	"	"	286	259	....	....	5	....	....	3	29
Sir James Douglas	"	Miss S. J. Herbert	547	514	....	....	3	....	....	3	58
South Park	"	Mrs. J. A. Osborn	369	258	....	....	4	....	3	1	18
Special	"	"	17	15	....	....	....	....	....	....	1
Spring Ridge	"	Miss S. J. Herbert	195	166	....	....	3	1	....	....	16
Rock Bay	"	Mrs. J. A. Osborn	68	67	....	....	1	....	....	....	2
Victoria West	"	"	420	381	....	....	2	..	2	2	35

SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
47	1	7	Vaccinated, 128; pulmonary, 2; cardiac, 4	....	....	....	....	Diphtheria, 3; mumps; 34; chicken-pox, 19	Good ventilation..	Clean; adequate.
107	1	12	Vaccinated, 162; pulmonary, 1; cardiac, 13	....	....	....	....	Chicken-pox, 4; measles, 2; whooping-cough. 5; diphtheria, 1; scarlet-fever, 1; mumps, 95	Fair ventilation...	Unsanitary.
85	....	14	Vaccinated, 134; pulmonary, 6; cardiac, 8	....	....	....	....	Chicken-pox, 3; scarlet-fever, 1; mumps, 81	Poor ventilation ..	Clean; adequate.
42	2	8	Vaccinated, 170; pulmonary, 2; cardiac, 4	....	....	....	....	Chicken-pox, 21; mumps, 100; whooping-cough, 2; measles, 1; diphtheria, 4	Fair ventilation ..	" "
38	4	10	Vaccinated, 103; pulmonary, 3; cardiac, 3	....	....	....	....	Chicken-pox, 1; scarlet-fever, 1; mumps, 71	" ..	" "
92	1	6	Vaccinated, 99; cardiac, 4.....	....	....	....	....	Chicken-pox, 5; scarlet-fever, 17; diphtheria, 3; measles, 17; mumps, 57	Poor ventilation..	" "
88	3	10	Vaccinated, 149; cardiac, 11...	....	....	....	....	Chicken-pox, 25; scarlet-fever, 1; mumps, 80; measles, 14; whooping-cough, 5	Fair ventilation...	" "
118	....	9	Vaccinated, 203; pulmonary, 2; cardiac, 7	....	....	....	....	Chicken-pox, 3; mumps, 10	Poor ventilation ..	" "
88	10	6	Vaccinated, 131; cardiac, 8....	....	....	....	....	Chicken-pox, 42; mumps, 50; measles, 15	Fair ventilation...	" "
175	6	18	Vaccinated, 290; pulmonary, 3; cardiac, 22	....	...	....	....	Chicken-pox, 6; scarlet-fever, 6; diphtheria, 5; mumps, 45; whooping-cough, 8; measles, 2	Good ventilation..	" "
129	1	14	Vaccinated, 284; pulmonary, 4; cardiac, 9	....	....	....	....	Chicken-pox, 7; scarlet-fever, 1; mumps, 21	Fair ventilation...	" "
125	6	23	Vaccinated, 222; pulmonary, 9; cardiac, 13	....	....	....	...	Chicken-pox, 44; scarlet-fever, 2; diphtheria, 3; measles, 1; whooping-cough, 12; mumps 173	Bad ventilation...	Unsanitary.
203	3	8	Vaccinated, 380; pulmonary, 2; cardiac, 11	....	....	....	....	Chicken-pox, 4; scarlet-fever, 1; diphtheria, 5; measles, 27; whooping-cough, 5; mumps, 117	" ..	"
107	11	76	Vaccinated, 228; pulmonary, 6; cardiac 8	....	....	....	....	Chicken-pox, 6; measles, 1; whooping-cough, 5; mumps, 89; diphtheria, 6	Good ventilation..	Clean; adequate.
270	5	10	Vaccinated, 577; pulmonary, 6; cardiac, 24	....	....	....	...	Chicken-pox, 15; scarlet-fever, 2; diphtheria, 2; measles, 4; whooping-cough, 5; mumps, 132	O.B.; bad ventilation	Unsanitary.
74	11	19	Vaccinated, 162; pulmonary, 4; cardiac, 3	....	....	....	....	Chicken-pox, 10; scarlet-fever, 3; diphtheria, 2; measles, 3; mumps, 90	Fair ventilation...	Clean; adequate.
1	....	....	Cardiac, 1	....	....	....	....	.....	Window ventilation	Clean; adequate.
96	3	4	Cardiac, 3	....	....	...	....	....	Good.....	" "
165	5	3	Cardiac, 4	....	....	....	....	....	"	" "
137	6	6	Cardiac, 3	....	....	...	....	....	"	" "
67	1	3	.....	....	....	2	1	Mumps, measles.....	"	
29	5	....	Bronchitis, 1; vaccinated, 36..	....	....	1	....	....	"	" "
45	3	1	Vaccinated, 23	....	....	....	....	.....	"	" "
44	9	1	Keratitis, 1; vaccinated, 41 ...	....	....	1	....	....	"	" "
57	5	....	Vaccinated, 164.....	1	....	....	....	.....	"	" "
45	4	....	Vaccinated, 171..... ...	....	....	....	....	Chicken-pox, 1; whooping-cough, 1	"	" "
1	....	....	Vaccinated, 3.....	....	....	....	....	....	"	" "
17	4	....	Vaccinated, 21.....	....	....	....	....	.....	"	" "
37	2	....	Vaccinated, 205..	....	....	....	....	Chicken-pox, 1.....	"	" "
38	4	....	Vaccinated, 38.....	....	....	....	....	Chicken-pox, 2.....	"	" "
45	7	3	Vaccinated, 46; eczema, 1; paraplegia, partial, 1	....	....	1	....	.....	"	" "
23	2	....	Vaccinated, 93.....	....	....	....	....	.....	"	" "
28	12	2	Anæmia, 1; vaccinated, 171...	....	....	1	....	.....	"	" "
62	11	7	Conjunctivitis, 1; anæmia, 1; ringworm, 1; vaccinated, 154	....	....	1	....	.....	"	" "
49	9	3	Stutters, 1; vaccinated, 73....	...	....	1	....	... .	"	" "
77	8	....	Vaccinated, 169.....	....	....	3	..	Chicken-pox, 1.....	"	" "
19	13	3	Vaccinated, 136.....	....	....	....	....	.....	"	" "
1	....	5	Cleft palate, 1.....	....	....	....	....	....	"	" "
46	4	....	Vaccinated, 45.....	1	1	2	....	.. ..	"	" "
8	....	....	Vaccinated, 67.....	...	....	....	....	....	"	" "
78	15	1	Ringworm, 1; vaccinated, 152.	....	....	....	1	....	"	" "

RURAL MUNICIPALITY

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Burnaby:											
Armstrong Avenue	G. de B. Watson		27	25	....	....	....	....	....	....	1
Barnet	C. M. Eaton		25	25	....	....	4	....	1	5	10
Douglas Road	G. de B. Watson		68	62	....	....	1	....	....	....	3
Edmonds Street	"		403	385	....	....	30	3	1	10	29
Gilmore Avenue	C. M. Eaton		514	510	6	3	34	15	10	79	144
Hamilton Road	G. de B. Watson		31	26	....	....	....	1	....	....	1
Howard Avenue	C. M. Eaton		42	41	....	....	1	....	1	7	9
Inman Avenue	"		123	123	....	....	10	5	3	21	38
Kingsway, East	G. de B. Watson		166	153	....	....	3	2	1	3	7
Kingsway, West	D. M. Eaton		431	431	1	2	23	15	5	53	124
Nelson Avenue	G. de B. Watson		256	184	....	1	9	5	....	....	14
Riverway, East	"		72	70	....	....	2	1	1	....	5
Schou Street	C. M. Eaton		80	78	....	1	7	3	2	7	19
Second Street	G. de B. Watson		99	91	....	1	2	....	....	....	6
Sperling Avenue	C. M. Eaton		35	33	1	....	2	1	2	5	11
Chilliwack:											
Atchelitz	J. C. Henderson		72	66	1	....	1	....	....	5	7
Camp Slough	J. C. Elliot		53	47	....	....	....	1	2	7	4
Cheam	"		62	61	....	1	1	9	6	8	11
Chilliwack, East	"		72	68	....	....	....	4	2	2	4
Fairfield Island	J. C. Henderson		36	36	1	....	2	....	1	10	10
Lotbiniere	"		73	64	....	....	....	....	....	7	7
Promontory Flats	"		13	10	1	....	....	....	1	2	2
Rosedale	J. C. Elliot		103	97	....	1	3	11	26	24	21
Sardis	J. C. Henderson		134	131	1	1	1	1	....	15	17
Strathcona	"		59	55	....	....	2	....	....	5	8
Sumas	"		13	10	....	....	....	....	....	1	1
Vedder Creek	"		10	9	....	....	....	....	....	3	3
Yarrow	"		15	15	....	....	....	....	1	4	4
Coldstream:											
Coldstream	W. Arbuckle		32	28	....	....	1	....	....	....	2
Lavington	"		36	29	....	1	1	....	....	1	1
Delta:											
Annacis Island	A. A. King		14	13	1	1	3	1	2	4	4
Annieville	"		32	32	2	....	2	....	2	4	2
Boundary Bay	"		34	28	1	....	3	....	1	1	1
Canoe Pass	"		46	29	2	2	3	2	4	4	5
Delta, East	"		21	15	....	....	5	1	2	2	3
Inverholme	"		26	21	1	....	2	1	1	7	10
Ladner	"		184	164	7	1	18	1	13	23	36
Mosher's Siding	"		14	11	1	..	2	....	2	3	2
Sunbury	"		47	32	2	2	3	....	5	9	9
Trenant	"		28	24	1	....	2	....	2	4	3
Westham Island	"		22	20	1	2	5	....	....	....	2
Esquimalt	J. S. McCallum	Miss Morrison	530	530	91	12	14	3	94	87	299
Kent:											
Agassiz	P. S. McCaffray		152	138	14	3	16	5	13	37	37
Harrison Mills	"		19	15	3	1	2	2	7	8	8
Langley:											
Aldergrove	B. B. Marr		66	61	....	....	2	....	....	....	3
Aldergrove, South	"		32	29	....	....	1	1	....	....	6
County Line	"		45	34	1	....	4	....	....	....	3
Glen Valley	"		35	29	....	....	....	....	1	1	2

SCHOOLS.

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
8	....	....	.....	....	....	....	....	.....	Good.....	Good.
4	4	....	Cardiac, 1; blepharitis, 1; nervous, 1; wax in ears, 1; tonsillitis, 1	....	....	....	....	.....	"	"
12	....	....	.....	2	....	....	....	.....	"	"
107	14	....	Rhinitis, 1; bronchial catarrh, 1; wax in ears, 3; unclean, 2	....	....	1	3	Chicken-pox, 15; scarlet-fever, 3; diphtheria, 1; mumps, 2	"	"
105	67	....	Unclean, 34; bronchitis, 14; anæmia, 11; blepharitis, 2; cardiac, 15; strabismus, 1; wax in ears, 53; rhinitis, 27; tonsillitis, 18	....	....	1	...	.....	"	"
7	1	....	Unclean, 1; wax in ears, 1	....	....	....	....	Measles, 17.....	"	"
13	4	....	Unclean, 3; bronchitis, 1; cardiac, 1; wax in ears, 5; rhinitis, 4; tonsillitis, 2	....	....	....	...	....	"	"
24	24	....	Eczema, 1; unclean, 4; bronchitis, 7; anæmia, 1; cardiac, 8; strabismus, 2; wax in ears, 6; rhinitis, 6	...	....	....	...	.....	"	"
43	2	....	Unclean, 1; wax in ears, 3; rhinitis, 1	....	....	2	....	Mumps, 3.....	"	"
87	77	....	Eczema, 1; unclean, 14; bronchitis, 9; anæmia, 4; cardiac, 14; blepharitis, 3; strabismus, 4; wax in ears, 46	....	....	5	50	.....	"	"
57	6	....	Eczema, 1; strabismus, 1; wax in ears, 3; rhinitis, 2	....	2	6	....	Mumps, 14.....	"	"
14	1	....	Psoriasis, 1; blepharitis, 1; rhinitis, 1	....	....	....	....	Measles, 21; mumps, 1..	"	"
13	5	....	Unclean, 7; bronchitis, 1; anæmia, 1; cardiac, 1; blepharitis, 1; strabismus, 3; nystagmus, 1; rhinitis, 5	...	....	....	....	....	"	"
26	1	....	Seborrhœa, 2; wax in ears, 3..	....	....	....	7	Chicken-pox, 32; scarlet-fever, 1; mumps, 3	"	"
8	9	....	Unclean, 7; cardiac, 3; wax in ears, 6; rhinitis, 3	....	....	....	....	.....	"	"
17	...	4	.....	....	....	...	....	Measles, 1.....	"	"
8	...	1	Heart-lesion; anæmia.....	....	....	....	....	.....	"	"
12	1	2	Rash, 1; anæmia, 2.....	....	....	1	....	....	Fair.....	Fair.
14	....	4	.....	....	....	1	....	.....	"	"
12	....	2	Nervous, 1.....	....	....	....	....	.....	Good.....	Yes.
19	....	11	.....	....	....	1	....	.....	"	"
5	....	3	.....	....	....	....	....	.....	"	"
38	1	12	.....	....	1	1	....	....	"	"
26	1	9	.....	....	....	....	....	Measles, 65	"	"
10	....	8	.....	....	....	....	....	....	"	"
5	...	...	.....	..	...	.	...	....	"	"
3	....	1	.....	....	....	....	....	.....	"	"
4	....	1	....	....	....	....	....	.....	"	One; unclean.
2	....	....	.....	....	...	....	....	.....	"	Clean; adequate.
3	....	4	.....	....	....	....	....	Mumps.....	"	" "
5	....	....	.....	....	4	....	....	....	"	Good.
10	....	1	.....	....	....	4	....	....	"	"
1	....	2	.....	....	....	....	....	....	"	Fair.
11	2	....	....	....	1	4	2	Mumps, 6.....	"	Good.
8	1	....	.....	....	....	2	....	... .	"	Not good.
7	....	1	Asthma, 1.....	....	....	....	....	.....	"	Fair.
41	....	9	Chorea, 1; cardiac, 1.....	....	....	3	....	Mumps, 42.....	"	Good.
2	....	....	.....	....	....	....	....	.....	Fair; no drinking water	"
10	3	2	Orthopædic, 2	....	...	5	....	Whooping-cough, 5.....	Fair	Fair.
6	....	6	.....	....	....	3	....	Whooping-cough, 3.....	Good.....	"
2	....	1	.....	....	....	2	....	Mumps, 4.....	Fair.....	"
351	62	16	Cardiac, 1; rheumatism, 3; Infantile paralysis, 1	16	....	4		Chicken-pox, 77; mumps, 20; scarlet-fever, 1; pneumonia, 5; whooping-cough, 1	Good.....	Clean; adequate.
55	....	46	Cardiac, 2; Pott's disease, 1. .	....	....	....	....	.....	Ventilation and heating bad	Good.
9	....	4	Cardiac, 1; nervous 1.....	....	....	3	...	.....	Poor	Poor.
9	...	10	.....	....	....	....	....	.....	Good.....	Good.
1	....	4	.....	....	....	....	....	....	Overcrowded.....	Overcrowded.
4	....	1	.....	....	....	....	....	.....	Good; crowded ...	Good.
4	....	2	.....	....	....	....	....	.....	Poor	"

RURAL MUNICIPALITY

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Langley—*Continued.*											
Glenwood	B. B. Marr		28	25	...	....	....	...	....	....	3
Langley, East	"		28	17	....	....	1	....	....	...	1
Langley Fort	"		76	65	....	....	3	3	...	1	6
Langley Prairie	"		112	88	1	....	4	....	2	2	3
Langley, West	"		41	32	....	....	....	....	....	....	1
Lochiel	"		20	17	....	....	1	....	....	....	2
Milner	"		75	66	1	....	5	....	1	1	7
Murrayville	"		109	95	1	....	7	1	....	....	12
Otter	"		54	38	....	....	....	....	....	....	4
Springbrook	"		31	28	....	....	....	1	....	....	4
Maple Ridge:											
Albion	G. Morse		29	26	....	....	1	1	....	....	3
Hammond	"		91	76	9	....	4	1	...	....	12
Haney	"		142	110	11	1	7	....	....	....	12
Maple Ridge	"		132	126	8	2	6	....	....	....	13
Alex. Robinson	"		60	53	5	2	2	....	....	..	5
Ruskin	"		31	27	2	1	1	....	....	..	3
Webster's Corners	"		36	34	2	2	1	1	....	....	6
Whonnock	"		51	50	4	2	2	....	....	....	6
Yennadon	"		30	15	1	...	..	...	....	....	2
Matsqui:											
Aberdeen	A. L McQuarrie		48	42	4	4	1	....	3	1	9
Bradner	"		64	54	3	5	1	....	3	3	3
Clayburn	"		71	67	5	...	...	....	....	....	....
Dunach	"		13	11	1	1	1	....	....	....	....
Glenmore	"		26	22	2	..	....	....	1	1	1
Jubilee	"		19	5	....	....	....	....	....	....	....
Matsqui	"		92	32	1	1	1	....	1	1	1
Mount Lehman	"		50	43	2	....	1	....	2	....	11
Peardonville	"		23	10	....	....	....	....	....	..	2
Poplar	"		28	28	....	....	1	....	1	1	1
Ridgedale	"		59	32	....	....	....	1	1	1	2
Misson:											
Ferndale	A. J. Stuart		22	22	....	....	....	....	1	2	5
Hatzic	"		50	41	1	....	2	....	....	1	15
Mission	"		293	283	11	2	13	1	2	9	33
Silverdale	"		32	26	2	....	1	....	....	1	9
Silverhill	"		22	21	....	....	....	....	....	3	4
Stave Falls	"		17	17	1	....	1	....	....	1	3
Stave Gardens	"		11	9	....	....	....	....	...	1	1
Steelhead	"		19	18	....	....	1	....	1	3	7
Oak Bay:											
Monterey	W. P. Walker		217	217	1	....	7	...	16	22	64
Willows	"		250	231	5	1	10	...	19	21	70
Peachland:											
Peachland	Wm. Buchanan		99	87	....	...	15	..	....	3	11
Trepanier	"		14	11	....	....	1	....	....	1	....
Pitt Meadows:											
Pitt Meadows	G. Morse		29	23	2	....	2	....	...	....	10
Richardson	"		18	15	1	....	....	....	....	....	2
Point Grey:											
Kerrisdale	T. H. Lennie		287	285	22	7	39	1	32	27	54
Lord Kitchener	"		140	140	9	1	16	1	33	33	44
Magee	"		280	287	17	1	41	2	37	36	52
Marpole	"		332	325	11	3	38	4	49	43	88
Queen Mary	"		307	300	10	....	29	2	48	48	84
Prince of Wales	"		246	242	20	....	28	1	16	13	40
Edith Cavell	"		254	240	24	5	26	....	44	40	61
Saanich:											
Cedar Hill	J. P. Vye	Miss Panton	121	115	....	1	5	....	15	15	18
Cloverdale	"	"	228	119	....	3	5	....	13	19	28
Craigflower	"	"	111	100	1	2	1	....	21	23	28
Gordon Head	"	"	42	37	...	....	1	....	4	3	7
Keating	"	"	64	63	....	....	1	....	6	6	9
Model	"	"	76	74	....	...	2	....	2	1	2

SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
....	....	2	....	....	1	....	....	.....	Good.....	Good.
1	....	3	....	....	....	....	....	....	Poor	Fair.
11	....	4	....	....	....	....	....	.....	Good; 3rd division poor	Good.
19	1	5	.....	....	...	1	....	....	Good; crowded ...	"
4	....	5	....	....	....	....	....	....	Good.	"
....	....	1	....	....	....	....	....	.....	Poor	Fair.
7	1	3	.....	....	....	....	....	.....	Good.....	Good.
13	1	4	....	....	....	....	....	....	"	"
1	...	4	....	....	....	....	....	.....	Crowded.....	"
2	....	1	....	....	....	....	....	....	Poor	Fair.
14	....	....	.....	....	....	....	....	.....	Good.....	Clean.
23	....	....	....	....	....	....	....	.....	"	"
66	....	....	....	....	....	....	....	Scarlet-fever, 2.....	Overcrowded	Poorly kept.
44	....	....	....	....	....	....	....	Chicken-pox, 30	Good.	Clean.
9	....	....	St. Vitus's dance, 1; cardiac, 2.	3	....	2	....	Scarlet-fever, 12	"	"
8	....	....	....	....	....	....	....	.....	"	"
23	....	....	....	....	....	....	....	.....	"	"
20	....	....	St. Vitus's dance, 1; cardiac, 1.	....	....	....	....	....	"	"
12	....	....	....	....	....	....	....	.....	"	"
12	....	....	....	....	....	....	..	.....	"	Clean; adequate.
9	....	2	Eczema, 1.....	....	....	....	..	....	"	" "
4	....	1	Nervous, 1	....	....	....	....	....	"	" "
....	....	....	....	....	....	....	....	....	"	" "
3	1	1	Cardiac, 1	....	...	....	....	....	"	" "
....	....	....	....	....	....	....	....	.....	Bad ventilation ..	" "
3	....	....	.....	....	....	....	....	.....	Good..	" "
14	....	....	....	....	....	....	....	.....	"	" "
5	....	....	....	....	....	....	....	.. ..	"	" "
2	....	....	.....	....	....	....	....	.....	"	" "
6	1	1	Cardiac, mitral regurgitation..	....	....	....	....	.....	"	" "
3	....	2	Chorea, 1	....	...	....	....	Scarlet-fever, 1.....	Very unsatisfactory	Very bad.
13	....	2	Neurasthenic, 1	....	....	....	....	.....	Satisfactory	Clean; good.
46	4	21	Neurasthenic, 2	....	....	....	....	Scarlet fever, 3; measles, 2	Excellent.....	"
12	....	5	....	....	....	....	....	....	Satisfactory	"
5	....	....	....	....	....	....	....	.....	Fairly good.....	"
6	....	2	Anæmia, 1.....	....	....	....	....	....	Satisfactory	"
2	....	....	....	....	....	....	....	....	"	"
4	...	1	....	....	....	....	....	....	"	"
62	24	1	Speech, 1.....	....	....	....	....	Chicken-pox; whooping-cough; measles	Excellent.....	"
64	50	....	Speech, 1; orthopædic, 1.....	....	....	....	....	Chicken-pox; whooping-cough; measles	"	"
8	....	84	....	....	....	....	....	....	Satisfactory	Satisfactory.
3	....	11	....	....	....	....	....	.....	"	"
20	4	1	....	....	....	....	....	Scarlet-fever, 1.....	Good.....	Clean.
8	....	....	.....	....	....	8	....	.....	"	"
60	13	39	Cardiac, 10; pulmonary, 2; anæmia, 5; orthopædic, 5	....	....	24	...	Chicken-pox, 20; mumps, 25; measles, 3	Crowded; poor ventilation	Fairly adequate.
36	14	24	Cardiac, 4; pulmonary, 1; orthopædic, 1; anæmia, 5	....	....	....	....	Chicken-pox, 5; mumps, 11; measles, 1	Satisfactory	Couple; clean.
55	14	45	Cardiac, 9; anæmia, 10; hernia, 1; orthopædic, 1	...	....	15	2	Chicken-pox, 4; mumps, 15; whooping-cough, 2; scarlet-fever, 5	Modern.....	Satisfactory.
92	28	58	Cardiac, 10; nervous 1; orthopædic, 1; anæmia, 3; pulmonary, 1; hernia, 1	....	....	20	4	Chicken-pox, 11; scarlet-fever, 2; mumps, 20	Crowded.....	Fairly satisfactory.
74	16	47	Cardiac, 12; orthopædic 1.....	2	. ..	18	....	Chicken-pox, 5; whooping-cough, 1; scarlet-fever, 1; mumps, 22	Satisfactory.....	Clean; adequate.
39	9	38	Cardiac, 3; anæmia, 4; pulmonary, 1	....	....	7	....	Scarlet-fever, 2.....	Crowded	Satisfactory.
66	13	30	Cardiac, 6; anæmia, 5; orthopædic, 1	1	....	12	....	Chicken-pox, 4; mumps, 20; measles, 1; scarlet-fever, 2	Satisfactory	"
49	1	....	Vaccinated, 26; pleurisy, 1; jaundice, 1	....	....	....	....	....	Good.....	Repaired.
82	1	....	Vaccinated, 58.....	....	....	....	....	.....	"	Adequate.
59	2	....	Mitral murmur, 1; vaccinated, 36	....	...	....	....	....	"	"
20	....	....	....	....	....	....	....	....	"	"
26	....	....	Vaccinated, 5.....	...	....	....	....	.....	"	"
17	....	....	Pleurisy, 1; vaccinated, 26....	...	....	....	....	....	Very good.....	"

RURAL MUNICIPALITY

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Saanich—*Continued.*											
McKenzie Avenue	J. P Vye	Miss Panton	173	157	...	4	8	....	11	12	16
North Dairy	"	"	82	67	...	1	3	....	4	6	8
Prospect Lake	"	"	40	38	....	....	....	....	3	6	6
Royal Oak	"	"	78	61	....	1	1	....	1	4	8
Saanichton	"	"	51	44	....	....	1	....	3	4	5
Saanich, West	"	"	62	57	....	1	....	....	1	....	2
Strawberry Vale	"	"	110	103	....	2	2	....	9	11	16
Tillicum Road	"	"	185	169	....	4	8	1	20	28	40
Tolmie	"	"	363	312	2	4	14	....	43	53	65
Victoria Normal	B. Cleland	"	.....	114	....	....	30	2	2	2	15
Sumas:											
Huntingdon	T. A. Swift	.....	48	31	....	1	....	...	....	....	4
Straiton	"	.....	.....	15	6	....	....	....	...	2	4
Whatcom Road	"	.....	.....	22	....	....	2	....	....	....	6
Summerland	F. W. Andrew	.....	336	302	26	....	47	11	....	64	83
Surrey:											
Anniedale	F. D. Sinclair	.....	23	18	....	....	....	....	1	1	4
Clayton	"	.....	36	32	....	....	....	....	2	2	6
Cloverdale	"	.....	186	169	1	....	5	....	3	4	26
Cloverdale Annex	"	.....	30	29	1	....	1	....	....	3	9
Crescent	"	.....	34	25	....	...	1	....	....	....	2
Colebrook	"	.....	18	16	....	....	....	....	....	....	2
Hall's Prairie	"	.....	72	50	1	....	3	....	1	1	10
Johnston Road	"	.....	50	44	....	....	6	....	....	....	3
Kensington	"	.....	46	36	...	....	...	....	....	....	2
Kensington, East	"	.....	36	29	....	....	....	....	....	....	8
Mud Bay	"	.....	34	28	....	....	1	....	....	....	2
Newton	"	.....	38	24	....	....	4	....	....	....	6
Port Mann	"	.....	28	23	....	...	1	....	2	2	6
Springdale	"	.....	48	39	1	....	4	1	....	7	....
Strawberry Hill	"	.....	51	42	2	....	1	....	....	....	11
Surrey Centre	"	.....	28	28	3	....	3	....	....	...	1
Tynehead	"	.....	33	27	....	....	1	....	....	....	1
Westminster, South	"	.....	89	53	....	....	2	....	3	2	11
White Rock	"	.....	92	88	....	....	5	....	....	....	15
Vancouver, North:											
Capilano	R. V. McCarley	.....	76	76	....	....	3	....	2	7	16
Keith Lynn	"	.....	58	58	....	....	2	....	2	14	21
Lynn Valley	"	.....	297	294	4	3	20	1	3	42	96
North Star	"	.....	164	158	3	1	8	1	3	20	35
Roche Point	"	.....	23	23	....	....	2	...	....	2	5
Vancouver, South:											
Brock	Dr. Lamont	Miss E. Edwards	394	373	46	1	36	7	15	9	43
Carleton	"	"	788	791	32	2	55	25	32	34	89
Connaught	"	"	60	51	11	1	7	2	2	1	6
Gordon	"	"	333	202	59	1	18	2	20	20	17
Moberly	Drs. Griffin and Lamont	"	452	447	94	1	40	14	26	23	38
McBride	Dr. Lamont	"	515	475	35	....	36	17	20	18	24
McKenzie	"	"	606	577	85	1	79	8	34	25	102
Norquay	Drs. Griffin and Lamont	"	336	386	35	1	43	9	47	30	43
Secord	" "	"	246	234	17	....	25	5	19	9	16

SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
78	....	....	Cardiac, 1; vaccinated, 38	....	....	....	....	.....	Good	Adequate.
20	....	....	Vaccinated, 19	....	....	....	....	.....	"	"
25	1	....	Vaccinated, 10	....	....	....	....	Typhoid, 1	"	"
26	....	....	Pleurisy, 1; vaccinated, 25	....	....	....	....	.....	"	"
18	....	....	Vaccinated, 12	....	....	....	....	.....	"	"
22	....	....	Vaccinated, 18	....	....	....	....	.....	"	"
25	....	....	Mitral murmur, 1; vaccinated, 22	....	....	....	....	.....	"	"
64	3	....	Deformed right leg, 1; pleurisy, 1; vaccinated, 50	....	....	....	....	.....	"	"
142	1	3	Eczema, 1; vaccinated, 101	....	....	....	....	.....	"	"
19	....	20	Nervous; asthma; heart-lesion; spinal trouble	....	....	....	....	.....	"	O. K.
5	....	6	.....	....	10	....	....	Mumps	Good	Clean; adequate.
6	2	1	.....	....	....	....	....	Scarlatina, 2	"	" "
3	....	5	.....	....	....	....	....	.....	"	" "
81	55	59	Cardiac, 6; chorea, 2; anæmia, 2; acne, 4; vaccinated, 279	2	2	4	....	chicke-pox, 16; measles, 2; mumps, 42	Inadequate	Fair.
7	5	1	.....	....	....	....	....	.....	Crowded; no water	Poor.
9	5	....	Deriated septum, 1	....	....	....	....	Chronic paralysis, 1	Inadequate	"
17	47	15	Otitis media, 1	....	....	....	....	Chronic paralysis, 1	Good[able	Good.
11	26	1	.....	....	....	....	....	Pertussis	Entirely unsuit-	Unsanitary.
10	15	3	Synoritis, 1	....	....	....	....	.....	Good; no water	Fair.
4	7	....	.....	4	....	....	....	.....	Good	Good.
17	15	1	Bifid urula, 1	5	....	....	....	.....	"	"
6	25	1	.....	....	....	....	....	.....	Fair	Fair.
12	12	2	Impediment in speech, 1; blepharitis, 1	....	....	....	....	.....	Good	Untidy.
7	5	2	Defective palate, 1	2	....	....	....	Pertussis	No water; poorly ventilated; crowded	Not fly-proof.
14	5	2	.....	....	....	....	....	Pertussis	Crowded	Unsatisfactory.
9	10	4	.....	....	....	1	....	Measles	No water; heating unsatisfactory	Poor.
9	5	.	.....	....	....	....	....	Chicken-pox	No water; temporary	Unhygienic.
11	9	4	.....	....	....	....	....	.....	Crowded	Fair.
22	21	1	Defective palate, 1	....	....	....	....	.....	Crowded; no water	Good.
5	16	2	Synoritis knee, 1; defective palate, 1	....	....	....	....	Mitral endocarditis, 1	Poorly heated and ventilated; crowded	Inadequate.
7	12	1	.....	....	....	....	....	Chicken-pox	Lighting bad	Unsatisfactory.
22	14	....	Defective palate, 1	....	....	....	....	Measles	Good; no water	Poor.
17	20	2½	Cleft palate, 1	5	....	....	....	.....	Good	Good.
14	6	5	Valvular heart-disease, 1	....	....	....	....	Mumps, 3	Crowded	Clean; adequate.
19	1	1	Valvular heart-disease, 1	....	1	1	....	.....	Satisfactory	" "
59	23	21	Valvular heart-disease, 2; bronchitis, 2; spinal curvature, 1; lame, 1	....	....	....	....	Chicken-pox, 1; whooping-cough, 3; mumps, 9; scarlet-fever, 1	Adequate	" "
33	6	4	Asthma, 1; valvular heart-disease, 3; lame, 2	....	....	....	....	Measles, 15; mumps, 2; chicken-pox, 8	Crowded	" "
1	....	....	.....	....	....	....	....	.....	Satisfactory	" "
166	6	9	Cardiac, 9; nervous, 2	1	2	....	1	Chicken-pox, 17; mumps, 66; measles, 1; diphtheria, 1	Badly ventilated	Fair only.
337	1	37	Cardiac, 8	5	1	2	....	Scarlet-fever, 9; mumps, 138; measles, 5; chicken-pox, 38; smallpox, 4	Satisfactory	Satisfactory.
30	....	....	Cardiac, 1	....	....	....	....	Mumps, 2; chicken-pox, 4	Only fair	"
98	....	4	Cardiac, 7	2	....	....	1	Mumps, 8; chicken-pox, 5; measles, 2; diphtheria, 1	Satisfactory	"
262	22	22	Cardiac, 5; nervous, 2	15	....	....	2	Mumps, 18; scarlet-fever, 1; whooping-cough, 3; chicken-pox, 9	"	"
238	3	24	Cardiac, 9	....	....	1	1	Mumps, 25; diphtheria, 1; measles, 2; chicken-pox, 5	"	"
241	3	24	Cardiac, 6	8	....	1	.	Mumps, 23; scarlet-fever, 2; whooping-cough, 1; chicken-pox, 2	Badly ventilated	Fairly satisfactory.
241	53	22	Pulmonary, 5; cardiac, 2	5	1	....	....	Chicken-pox, 13; mumps, 143	Satisfactory	Satisfactory.
159	43	11	Pulmonary, 2; cardiac, 3	7	....	....	2	Mumps, 22; chicken-pox, 8	"	"

RURAL MUNICIPALITY

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Vancouver, South—*Continued.*											
Selkirk	Dr. Lamont	Miss E. Edwards	772	736	84	1	89	24	8	24	21
Sexsmith	Drs. Griffin and Lamont	"	208	203	13	....	26	7	12	6	20
Tecumseh	Dr. Lamont	"	566	538	129	2	60	11	22	21	11
Van Horne	Drs. Griffin and Lamont	"	324	324	30	1	28	12	30	23	9
Wolfe	" "	"	700	746	103	1	88	28	61	45	67
Vancouver West:											
Cypress Creek	F. Stainsby		21	16	....	....	....	....	....	....	1
Dundarave	"		60	46	....	....	3	2	....	....	9
Hollyburn	"		200	171	1	....	19	7	1	1	26
Weston	"		59	49	....	...	2	....	....	....	2

RURAL AND

Abbotsford	T. A. Swift		164	137	6	....	11	1	2	....	20
Adams Lake	W. Scatchard		19	18	....	....	....	....	....	2	2
Albert Canyon	J. H. Hamilton		7	7	....	....	....	....	....	....	3
Albert Head	Richard Felton	Miss O. Gawley	10	9	....	....	....	....	....	....	....
Alert Bay	G. H. Wilson		36	23	....	....	....	....	....	1	1
Alice Arm	R. G. Stevenson		19	18	....	....	1	....	2	2	4
Alice Siding	G. B. Henderson		13	13	....	....	....	....	....	1	....
Allen Grove	H. McGregor		6	6	....	....	1	....	1	1	1
Anaconda	J. M. Burnett		6	5	....	....	3	....	2	2	5
Anarchist Mountain	"		28	20	....	....	....	....	....	....	5
Annable	J. B. Thom		13	13	1	....	2	....	....	1	2
Appledale	A. V. Jones		37	37	....	....	....	....	5	5	4
Argenta	G. C. Read		....	10	....	....	....	....	....	....	1
Arrowhead	J. H. Hamilton		29	25	....	....	....	....	....	....	2
Arrow Park, East	E. H. S. McLean		18	16	....	....	1	....	....	....	1
Arrow Park, West	"		18	17	....	....	1	....	....	2	4
Ashcroft	S. E. Beech		76	70	....	1	7	2	6	13	49
Ashton Creek	H. W. Keith		22	22	....	....	....	....	1	1	9
Athalmer	F. E. Ccy		21	16	....	....	2	....	....	1	2
Atlin	E. E. Rogers	Miss D. Taylor	10	4	....	....	....	....	....	....	1
Bainbridge	A. D. Morgan		9	9	1	....	....	....	....	1	1
Balfour	G. C. Read		....	16	....	....	1	....	....	1	2
Balmoral	Walter Scatchard		18	16	....	....	1	....	....	1	1
Barkerville	M. Callanan		17	17	....	....	....	....	....	....	....
Barnston Island	G. Morse		20	19	....	....	....	....	....	....	2
Barriere River	C. J. M. Willoughby		16	16	....	....	2	....	....	1	4
Baynes Lake	J. F. Saunders	Miss E. Bray	25	18	....	....	....	....	3	3	3
Beaton	J. H. Hamilton		8	7	....	....	....	....	....	....	....
Beaver Creek	A. D. Morgan		13	13	....	....	....	....	....	....	1
Beaver Lake	F. Vere Agnew		7	7	....	....	....	....	1	....	3
Beaver Point	E. M. Sutherland		26	26	....	....	....	....	....	....	2
Begbie	J. H. Hamilton		11	9	....	....	....	....	....	1	1
Belford	A. V. Jones		11	11	....	....	....	....	1	1	1
Belleview	E. H. S. McLean	F. M. Whitaker	9	9	....	....	....	....	....	....	3
Beresford	C. J. M. Willoughby		21	20	....	....	2	....	1	8	8
Berrydale	(Closed)										
Big Eddy	J. H. Hamilton		25	23	....	1	....	....	....	....	5
Blind Bay	W. Scatchard	Miss Ehlers	17	13	....	....	....	....	....	2	2
Blubber Bay	Andrew Henderson		13	13	....	....	....	....	....	1	8
Blueberry	J. Bain Thom		7	7	1	....	1	1	....	1	2
Boneparte Valley	S. E. Beech		10	9	....	....	1	....	....	2	8
Boston Bar	H. R. Fort		16	14	2	2	1	2	3	3	4
Boswell	G. B. Henderson		18	14	....	1	2	....	....	1	....
Boundary Falls	J. M. Burnett		12	7	....	....	1	....	....	....	2
Bowen Island	F. Inglis		19	15	....	....	1	....	....	1	2
Bowie	J. H. Hamilton		21	18	....	1	....	....	....	1	1
Bowser	L. T. Davis		10	10	....	1	....	....	....	1	....
Box Lake	E. H. S. McLean		24	23	....	....	....	....	8	7	8
Brackendale	N. J. Paul		27	25	....	1	2	....	1	2	5
Braeside	W. Ross Stone		12	12	....	....	....	....	1	1	....

SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
347	8	36	Cardiac, 10; nervous, 5	6	7	1	....	Chicken-pox, 11; mumps, 88; whooping-cough, 1; measles, 1; diphtheria, 1	Annex badly ventilated	Satisfactory.
123	25	24	Cardiac, 2	7	....	....	....	Chicken-pox, 8; mumps, 30; whooping-cough, 5	Satisfactory	"
254	2	15	Cardiac, 11	3	3	1	....	Chicken-pox, 29; measles, 21; mumps, 40	"	"
219	36	22	Pulmonary, 2; cardiac, 8	7	....	....	....	Mumps, 7; chicken-pox, 4	"	"
493	29	50	Cardiac, 18; nervous, 3	6	....	....	3	Chicken-pox, 29; measles, 21; mumps, 34; scarlet-fever, 1; whooping-cough, 1	"	"
9	6	....		....	....	....	....	....	Good	Clean; adequate.
21	11	....		....	....	....	....	Mumps, 28; whooping-cough, 1	"	" "
74	32	4	Cardiac, 5	....	....	....	....	Chicken-pox, 14; measles, 1; mumps, 9; influenza, 1; whooping-cough, 1	"	" "
8	4	....	Cardiac, 1; nervous, 1; orthopædic, 1	....	....	....	....	Mumps, 7	"	" "

ASSISTED SCHOOLS.

41	....	21		....	....	....	....	Mumps, 20	Poor ventilation	Yes.
5	....	14		....	....	....	....		Satisfactory	Defective.
....	....	....		....	....	....	....		Good	Good.
3	....	....	Tachyardia, 1	....	....	....	....	Scarlet fever; whooping-cough	Satisfactory	Bad.
3	..	....	Chorea, 1	....	....	....	....	Measles	Very poor	Poor; insanitary.
7	1	....	Nervous, 1	....	....	..	....		Crowded; poor ventilation	Fair.
4	..	....	Blepharitis 1	....	....	....	....		Good	Clean.
3	....	....		....	....	....	....		"	Good.
1	3	....		....	....	....	....		"	"
6	2	2		....	....	....	....		"	"
3	....	2		....	....	....	....	Measles	Needs porch	Fair.
10	3	3		....	....	....	....		Fair	"
2	....	1		....	....	....	....		Good	Good.
8	....	....		....	....	....	....		"	"
2	7	3	Nervous defect, 1	....	....	....	....		"	Yes.
8	....	3	Throat-trouble, 1	....	....	....	....		Average	No.
27	3	18	Anæmic, 2	....	....	....	....	Chicken-pox	Poorly heated; draughty	Yes.
4	....	6		....	....	....	....		Crowded	Clean; adequate.
6	....	....		....	....	....	....		Well ventilated	Clean.
2	....	..		....	....	....	....		Good	Clean; adequate.
....	....	....		....	....	....	....		"	Good.
4	....	3		....	....	....	....	Whooping-cough	Fair	Fair
4	....	8		....	....	....	....		Satisfactory	Clean.
7	....	....		....	....	....	....		Well ventilated	Clean; adequate.
9	1	....		....	....	....	....		Good	Clean.
2	....	....		....	....	....	....	Measles	Satisfactory	Satisfactory.
6	....	2		....	....	....	....		Good	Good.
3	....	....		....	....	....	....		Fair	Poor.
....	....	....		....	....	....	....		Good	Good.
6	1	....		....	....	....	....		"	Yes.
9	1	2	Stammering, 1	....	....	....	....		Fair; no water-supply	Fair.
2	....	....		5	....	....	....		Good	Good.
2	....	....		....	....	....	....		"	Clean.
6	....	2		....	....	....	....		"	Yes.
7	....	1	Cardiac, 1	....	....	....	....		Satisfactory	Satisfactory.
4	....	....		....	....	....	....		Good	Good.
6	....	7		....	....	....	....		Satisfactory	Fair.
10	....	2		....	....	....	....		O.K.	O.K.
3	....	2	Infantile paralysis, 1	....	....	....	....	Measles	Good	Yes.
2	2	2	Cardiac, 1	....	....	....	....	Tonsilitis	Satisfactory	"
7	3	5	Cardiac, 1; phthisis, 1	....	....	....	....	Whooping-cough	Efficient	Clean.
2	....	2		....	....	....	....		Good	Clean; adequate.
....	1	....	Keratitis, 1	....	....	....	....		"	Good.
7	1	....		....	....	....	....		"	Yes.
6	....	....		....	....	....	....		Fair	Fair.
1	....	....		....	....	....	....		Satisfactory	Excellent.
8	2	1		....	....	....	....		Crowded	No.
20	1	5		....	....	....	....	Measles, mumps	Good	Clean.
3	....	....		....	....	....	....		"	Yes.

RURAL AND

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Brechin	T. J. McPhee		85	82	....	...	1	....	....	....	12
Bridesville	J. M. Burnett		15	14	....	....	1	....	3	3	5
Brilliant	A. V. Jones		120	120	....	....	....	....	6	6	6
Brisco	F. E. Coy		9	6	...	1	....	....	....	....	1
Britannia Beach	G. W. Roberts	Miss Sutton	66	66	2	1	2	....	2	2	2
Britannia Mines	"	Miss Thoemen	42	42	2	...	2	....	2	2	2
Brown Creek	W. Truax		20	19	....	....	....	....	2	1	3
Buckley, South	C. H. Hankinson		18	10	....	....	1	...	4	4	7
Bull River Bridge	H. S. Christie		56	44	3	....	....	....	4	4	13
Burgoyne Bay	E. M. Sutherland		30	30	...	....	....	....	....	....	2
Burns Lake	C. H. Hankinson		48	45	....	....	....	1	1	5	6
Burtondale	E. H. McLean		28	24	1	1	....	....	....	....	3
Cache Creek	S. E. Beech		12	11	....	....	....	....	1	1	6
Cahilty	M. G. Archibald	Miss C. W. Thom.	10	6	....	....	....	....	....	....	2
Campbell Creek	C. J. M. Willoughby		12	11	....	....	1	....	1	4	4
Campbell Range	H. H. Murphy		9	8	....	....	....	....	....	1	1
Campbell River	W. F. Shaw		26	26	1	....	4	....	2	3	9
Canyon City	G. B. Henderson		55	48	1	....	2	....	....	2	4
Carlin Siding	E. Buckell		21	15	....	....	....	....	....	....	1
Carroll's Landing	E. H. S. McLean	F. M. Whitaker	11	10	....	....	....	....	....	....	....
Carson	W. Truax		30	29	....	....	....	....	4	2	4
Cartier	J. H. Hamilton		33	17	....	....	....	....	1	1	3
Cascade	W. Truax		30	30	1	....	2	....	4	1	3
Cassidy	T. J. McPhee		67	60	...	....	4	....	1	....	13
Caithness	J. F. Saunders		11	9	....	....	1	....	1	1	1
Castlegar	A. V. Jones		32	32	....	....	....	....	2	2	2
Cawston	M. D. McEwen	Miss P. Smith	43	43	....	....	20	....	....	....	10
Cedar, East	T. J. McPhee		12	11	....	....	1	....	....	....	....
Cedar, North	"		91	72	2	1	4	...	2	2	13
Cedar, South	"		28	28	....	..	....	1	....	....	5
Chase	W. Scatchard		94	86	....	....	1	....	....	28	28
Chase Creek	"		16	8	....	....	....	....	....	1	1
Chase River	T. J. McPhee		100	94	1	1	1	1	2	2	10
Cherry Creek Valley	A. D. Morgan		13	13	....	....	1	....	....	....	....
Chilco	W. Ross Stone		12	12	....	....	....	....	5	5	5
Chu Chua	H. H. Murphy		12	9	....	....	....	....	....	....	1
Clayoquot	D. S. Dixson		10	9	....	....	1	....	....	....	....
Clifton	C. J M. Willoughby		9	7	....	....	....	....	....	1	1
Clinton	S. E. Beech		42	35	1	....	7	....	....	1	26
Coal Creek	Wm. Workman		94	88	3	....	12	8	....	7	5
Coalmont	Lee Smith		23	22	....	....	....	....	2	6	12
Cokato	Douglas Corsan		22	19	....	....	....	1	3	3	5
Collishaw	W. Ross Stone		13	13	....	....	....	....	7	7	8
Coltern	J. M. Burnett		11	10	....	....	1	....	....	....	4
Columbia Gardens	J. B. Thom		12	11	1	....	2	1	1	2	3
Colwood	Richard Felton	Miss O. Gawley	32	30	....	....	2	....	....	1	3
Concord	J. C. Elliot		6	6	....	....	....	....	1	1	1
Copper Mountain	Lee Smith		21	16	1	....	....	....	1	3	8
Corbin	Robert Elliot		60	56	....	....	10	3	7	6	8
Cortes Island	W. F. Shaw		14	14	....	1	2	....	....	2	7
Cranberry Marsh	E. M. Sutherland		11	10	....	....	....	....	1	1	1
Crawford Bay	G. C. Read		.....	27	....	....	....	....	....	....	3
Crawford Creek	J. H. Hamilton		16	12	....	....	1	..	1	1	1
Crescent Valley	A. V. Jones		32	32	....	....	....	....	3	3	3
Creston	G. B. Henderson		197	177	4	2	30	....	....	9	12
Crow's Nest	Robert Elliot		11	11	....	...	3	2	1	3	3
Curzon	G. B. Henderson		11	8	....	....	1	....	....	....	....
Danskin	A. A. Gray		14	11	1	....	2	....	1	3	5
Dashwood	L. T. Davis		13	13	....	....	....	....	....	....	....
Dawson Creek	W. A. Watson		31	12	....	....	1	....	....	....	9
Decker Lake	A. A. Gray		11	10	1	....	1	....	....	3	5
Deep Cove	A. G. Beale		21	19	1	....	1	....	....	....	2
Deep Creek	H. W. Keith		16	12	....	....	3	....	....	1	5
Deer Park	J. E. H. Kelso		13	13	....	....	2	....	....	1	2
Demars, West	E. H. S. McLean		8	8	....	....	....	....	....	....	....
Denman Island	H. Meadows		55	50	....	....	....	....	....	....	2
Departure Bay	T. J. McPhee		7	7	....	....	....	....	....	....	3
Dewdney	A. J. Stuart		30	21	1	1	....	....	....	1	10
Diamond Crossing	J. E. Montgomery		48	43	....	....	....	....	5	5	5
Discovery	E. E. Rogers	Miss D. Taylor	10	4	....	....	....	....	....	....	1
Divide	E. M. Sutherland		16	15	....	....	....	....	....	..	2
Doriston	F. Inglis		7	7	1	....	2	....	....	....	....

ASSISTED SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
9	2	2		2	....	....	....	Measles, 4	Fair	Fair.
2	2	6		....	....	....	....		Poor	Good.
12	9	9		....	....	....	....		Good	Clean.
3	....	....		....	....	....	....	....	Well ventilated	"
5	....	2		....	....	....	....		Good	Clean ; adequate.
3	2	5		....	....	....	....		"	" "
4	2	....		....	....	....	....		"	Fair.
5	4	3		....	....	....	....	Chicken-pox	"	Poor ; insufficient
13	8	....		1	....	....	....		Satisfactory	Yes.
11	2	....	Pharyngitis, 1	....	....	....	....		"	Satisfactory.
12	1	....		....	....	....	....	Chicken-pox	Fair	Unclean.
6	....	1	Club-foot, 1	....	....	....	....		Good	Yes.
4	....	2		....	....	....	....	Tonsilitis	Old, cold, and draughty	"
4	....	2		....	....	....	....		Unfinished	Fair ; only one.
7	....	....		....	....	....	....	Measles	Satisfactory	Satisfactory.
1	....	....		....	....	....	....		"	Dirty.
10	....	....	Mitral regurgitation, 1	....	....	....	....	Mumps	Good	Clean ; adequate.
6	....	6		....	....	....	....		"	" "
4	....	1		....	....	....	....		Satisfactory	Yes.
3	....	2		....	....	....	....		Good	"
15	2	1	Cleft palate, 1	....	....	....	....		"	Clean ; adequate.
3	....	1		....	....	....	....		"	Good.
10	2	....		....	....	....	....		Fair	Fair.
10	9	10	Cardiac, 1	....	....	....	....		Bad	"
3	....	2		....	....	....	....		Good	Good.
2	2	2		....	....	....	....		"	Clean.
13	....	1		....	....	....	....		Satisfactory	Yes.
4	....	....		....	....	....	....		Good	Good.
16	2	5	Talipes, 1; anæmic, 1; neurotic, 1	....	....	....	....	Measles, 8	"	"
3	....	2		....	....	....	....		"	Fair.
32	1	55		....	....	....	....	Measles	Very satisfactory	Very good.
3	....	6		....	....	....	....		Fair	Fair.
13	8	14		....	....	....	....	Mumps, 7	Good	Very good.
4	....	1		....	....	....	....		"	Good.
....	....	....		....	....	....	....		"	Bad.
1	....	....	Osteitis, frontal bone, 1	....	....	....	....		Satisfactory	Yes.
3	....	....	Eczema, 1	....	....	....	....		Good	Clean ; adequate.
1	....	....		....	....	....	....		Satisfactory	Satisfactory.
3	2	12	Fits, 1	....	....	....	....		"	Yes.
30	6	2		....	....	1	....	Scarlet-fever, 1; chicken-pox, 21; measles, 12	Fair	Clean.
12	....	2		....	....	....	....		Good	Yes.
6	1	4		....	....	....	....	Measles	"	Clean ; but needs attention.
6	....	....		....	....	....	....		"	Good ; not adequate.
3	4	1		....	....	....	....		"	Good.
4	....	2		....	....	....	....	Measles	Much improved	Yes.
5	....	....	Pericarditis, 1	....	....	....	....	Whooping-cough, 1; scarlet fever, 1	Satisfactory	Clean ; adequate.
1	....	....		....	....	....	....		Fair	Fair.
11	....	5		....	....	....	....		Good	Yes.
18	1	2		....	....	....	....	Scarlet-fever ; chicken-pox	First class	Good.
3	....	....		....	....	....	....		Good	Clean ; adequate.
6	1	2		....	....	....	....		Satisfactory ; no water	Satisfactory.
6	1	7		....	....	....	....		Good	Good.
....	....	....		....	....	....	....		"	"
2	2	2		....	....	....	....		"	Clean.
18	....	11	Acne, 1	....	....	....	....		"	Clean ; adequate.
4	....	2	Cardiac, 1	....	....	....	....	Chicken-pox	First-class	Good.
1	....	2		....	....	....	....		Good	Clean.
8	....	....		....	....	....	....	Influenza	"	Clean ; adequate.
3	....	....		....	....	....	....		Very satisfactory	Excellent.
4	....	5		....	....	....	....		Fair	Fair.
7	....	....		....	....	....	....		Good	Clean ; adequate.
6	....	....	Curvature, 1; lung-expansion, 1	....	....	....	....		"	Good.
3	....	1		....	....	....	....		"	Yes.
2	....	....	Curvature of spine, 1	....	....	....	....		Fair	Clean ; adequate.
5	....	4		....	....	....	....		Average	Yes.
6	12	1		....	....	....	....		Very good	"
2	....	....		....	....	....	....		Good	Good.
9	1	2		....	....	....	....		Satisfactory	Clean ; adequate.
20	....	....	Orthopædic, 1	....	....	....	....	Influenza, 3	Good ; drinking utensils needed	Yes.
2	....	....		....	....	....	....		Good	Clean ; adequate.
5	1	1	Cardiac, 1	....	....	....	....		Satisfactory	Satisfactory.
2	1	....		....	....	....	....		Good	Yes.

RURAL AND

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Driftwood	C. H. Hankinson		13	13	....	....	1	....	....	....	3
Duck Range	C. J. M. Willoughby		22	20	2	....	1	....	2	8	8
Duhamel	A. V. Jones		16	16	....	....	....	....	2	2	2
Eagle Valley	E. Buckell		12	7	....	....	1	....	....	....	2
Edgewood	J. E. H. Kelso		22	22	....	....	....	....	....	1	3
Eholt	J. M. Burnett		9	7	....	....	1	....	....	....	2
Elk Bridge	Douglas Corsan		24	16	1	....	....	....	....	....	....
Elko	J. F. Saunders		35	22	....	....	4	....	4	4	4
Ellesby	W. Ross Stone		8	8	....	....	....	....	3	3	3
Ellison	W. J. Knox		21	21	....	....	1	....	2	2	3
Elphinstone Bay	F. Inglis		20	15	2	....	3	1	....	4	3
Endako	W. Ross Stone		15	14	....	....	....	....	2	2	2
Enderby, North	H. W. Keith		25	23	1	....	3	....	1	1	12
Engen	W. Ross Stone		8	8	....	....	....	....	2	2	2
Erickson	G. B. Henderson		38	38	1	....	6	....	....	3	5
Erie	John Nay		....	5	....	....	....	....	....	....	....
Errington	L. T. Davis		47	47	....	....	....	....	....	....	1
Fairview	H. McGregor		9	9	1	....	1	....	....	....	1
Falkland	P. D. van Kleeck		18	14	4	1	2	1	....	8	12
Fanny Bay	H. Meadows		13	12	....	....	....	....	....	1	2
Fauquier	J. E. H. Kelso		8	8	1	....	3	....	....	....	....
Ferguson	J. H. Hamilton		4	4	....	....	....	....	....	....	2
Field	C. H. Cheeseman		34	34	....	....	1	....	....	1	2
Fife	W. Truax		23	21	....	....	1	....	3	2	2
Fire Valley	J. E. H. Kelso		18	18	....	....	....	....	....	2	3
Fish Lake	R. W. Irving		15	15	....	....	....	....	....	....	....
Flagstone	J. F. Saunders		16	16	....	....	....	....	1	1	1
Forest Grove	F. Vere Agnew		10	8	....	....	....	....	....	....	4
Fort Fraser	W. Ross Stone		21	21	....	....	....	1	3	3	6
Fort Steele	Drs. Green and Mackinnon		39	39	....	....	....	....	....	....	10
Foster's Bar	H. R. Fort		9	9	....	1	....	....	2	1	4
Francois Lake, North	A. A. Gray		14	12	....	....	2	1	....	4	6
French Creek	L. T. Davis		26	26	....	....	....	....	....	....	....
Fruitlands	C. J. M. Willoughby		58	54	4	1	3	....	2	18	18
Fruitvale	John Nay		....	49	....	....	1	....	....	2	2
Gabriola, East	T. J. McPhee		....	6	....	....	....	....	....	6	6
Gabriola, North	"		15	13	1	....	1	....	....	1	3
Gabriola, South	"		16	12	....	....	....	....	....	1	2
Galiano, North	E. M. Sutherland		13	12	....	....	....	....	....	....	1
Galiano, South	"		15	15	....	....	....	....	1	1	4
Ganges	"		44	35	....	....	....	....	....	....	....
Gerrard	G. C. Read		....	5	....	....	....	....	....	....	....
Gill	A. D. Morgan		25	23	....	....	....	....	....	....	1
Gilpin	W. Truax		7	7	....	....	....	....	....	....	....
Glacier	J. H. Hamilton		19	16	....	....	....	....	....	....	1
Glade	A. V. Jones		14	14	....	....	....	....	1	1	1
Glenbank	E. H. S. McLean		43	42	....	....	1	....	13	12	12
Glenemma	P. D. van Kleeck		7	5	....	....	....	....	....	2	3
Glenrosa	Wm. Buchanan		13	11	....	....	....	....	....	....	8
Glentanna	C. H. Hankinson		8	8	....	....	2	1	3	3	3
Golden	Paul Ewert		157	131	2	....	3	....	....	11	20
Goldstream	Richard Felton	Miss O. Gawley	20	17	....	1	....	....	....	....	2
Granby Bay	L. Broe	" E. Stone	195	129	1	1	26	2	3	1	12
Grande Prairie	C. J. M. Willoughby		20	19	....	....	....	....	2	6	6
Grandview Bench	H. W. Keith		9	8	....	....	3	....	....	1	3
Grant Mine	T. J. McPhee		29	27	1	....	....	....	2	1	3
Grindrod	H. W. Keith		35	29	2	....	2	....	1	1	13
Halls Landing	J. H. Hamilton		13	12	....	....	....	....	....	....	1
Happy Valley	Richard Felton	Miss O. Gawley	21	21	....	1	3	1	....	....	1
Harewood	T. J. McPhee		368	358	11	2	4	2	11	11	31
Harper's Camp	F. Vere Agnew		11	7	....	....	1	1	4	....	2
Harrop	A. V. Jones		13	13	....	....	3	....	1	1	1
Hatzic Prairie	A. J. Stuart		5	4	....	....	1	....	....	1	2
Hazelton	H. C. Wrinch		30	25	....	....	....	....	....	....	7
Hazelton, New	"		22	20	....	....	....	....	....	....	2
Hedley	M. D. McEwen	Miss P. Smith	60	60	....	....	2	....	....	....	5
Heffley Creek	H. H. Murphy		20	15	....	....	3	....	1	1	2
Heffley Creek Upper	"		6	5	....	....	....	....	....	....	....
Hendon	P. D. van Kleeck		12	8	....	....	....	....	....	....	4

ASSISTED SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
7	3	1	....	....	....	....	....	Chicken-pox; scarlatina.	Fair	Insufficient.
10	....	....	Bronchitis, 1	....	....	....	....	....	Satisfactory	Satisfactory.
2	1	1	....	....	....	....	....	....	Good	Clean.
1	....	1	....	....	....	....	....	....	Needs ventilation.	Yes.
2	....	....	Rickets, 1; cleft palate, 1; curvature of spine, 1	....	....	....	....	....	Fair	Clean; adequate.
5	....	1	....	....	....	....	....	Measles	Poor drainage	Good.
5	....	1	Cardiac, 2	....	....	....	....	Scarlatina	Good	Clean.
10	3	7	....	3	....	....	....	....	"	Good.
4	....	....	....	....	....	....	....	Chicken-pox	"	"
5	1	1	Chorea, 2	....	....	....	....	"	"	"
4	3	....	....	....	....	....	....	....	"	Yes.
3	....	....	....	....	....	....	....	....	"	Good.
5	....	3	....	....	....	....	....	....	"	Clean; adequate.
3	....	1	....	....	....	....	....	....	"	Yes.
7	....	1	Cardiac, 2; cleft palate, 1	....	....	....	....	....	Crowded	Require cleaning.
1	....	....	....	....	....	....	....	....	O.K	Yes.
9	....	....	....	....	....	....	....	....	Very sanitary	Excellent.
2	....	2	....	....	....	....	....	....	Good	Good.
11	2	2	Growth on tongue, 1; cardiac, 2; anæmia, 2	....	....	....	....	....	Poor	Yes.
4	....	....	....	....	....	....	....	....	Very good	"
1	....	1	Pulmonary, 1	....	....	....	....	....	Good	Clean; adequate.
1	....	....	....	....	....	....	....	....	"	Good.
6	1	1	....	....	....	....	....	Measles; chicken-pox; mumps	Slightly crowded.	Yes.
5	3	....	....	....	....	....	....	....	Fair	Not clean.
....	....	1	Valvular of heart, 1	....	....	....	....	....	Excellent	Adequate.
1	....	....	....	....	....	....	....	....	Healthful	Clean.
4	....	4	....	....	....	....	....	....	Good	Good.
4	....	....	....	....	....	....	....	Mumps, 1	Good; heating inadequate	Yes.
13	....	....	....	....	....	....	....	....	Good	Good.
19	....	4	....	....	....	....	....	....	....	....
4	1	6	....	....	....	....	....	....	Excellent	Clean.
7	....	....	....	....	2	....	....	....	Very good	Clean; adequate.
10	....	....	....	....	....	....	....	....	Very sanitary	Excellent.
28	....	1	....	....	....	....	....	Measles	Satisfactory	Satisfactory.
10	....	....	....	....	....	....	....	"	Unsuitable	Yes.
2	....	....	....	....	....	....	....	....	Fair	Fair.
5	2	1	....	....	....	....	....	....	"	"
4	1	....	....	....	....	....	....	....	"	"
6	1	....	Cardiac, 1	....	....	....	....	....	Satisfactory	"
2	2	1	Rachitic chest, 1	....	....	....	....	....	Good	Good.
6	5	1	Stammering, 1	....	....	....	....	....	"	"
2	....	....	....	....	....	....	....	....	Fair	Fair.
6	....	1	....	3	....	....	....	....	Good	Good.
3	....	....	....	....	....	....	....	....	Poorly lighted	Poor.
4	....	....	....	....	....	....	....	....	Bad; ceiling low; crowded; ventilation and lighting poor	"
2	1	1	....	....	....	....	....	....	Good	Clean.
19	2	9	Impediment (nervous), 1	....	....	....	....	Ptomaine poisoning, 3	Average	No.
4	....	3	....	....	....	....	....	....	Good	Yes.
....	....	8	....	....	....	....	....	....	Satisfactory	Satisfactory.
7	2	1	....	....	....	....	....	Chicken-pox	Good	Poor.
27	2	4	Heart, 1	....	....	....	....	....	Frame	Good.
1	....	....	Asthma, 1; anæmia, 1	....	....	....	....	....	Satisfactory	Bad; inadequate.
80	30	59	Cardiac, 3; T.B. spine, 1; adipose, 1; flat feet, 1; deformed chest, 2	....	....	....	....	Scarlet fever; mumps; chicken-pox; whooping-cough	Good	Yes.
8	....	....	....	....	....	....	....	Measles	Satisfactory	Satisfactory.
3	....	3	....	....	....	....	....	....	Good	Yes.
4	1	1	Cardiac, 1	....	....	....	....	Pertussis, 8	Fair	Poor.
8	....	2	....	....	....	2	....	....	Good	Clean; adequate.
2	....	1	....	....	....	....	....	....	"	Good.
6	1	1	Nervous, 1; flat feet, 1	....	....	....	....	....	Satisfactory	Poorly drained.
30	26	32	Scaliosis spine; cardiac, 3; congenital dislocation hips, 2; neurotic, 2; anæmia, 3	3	2	6	....	Measles, 41; pertussis, 2; mumps, 70; diphtheria, 2	Crowded	O.K.
5	1	1	....	....	....	....	....	....	Good	Yes.
2	....	....	Tick of muscles of eye	....	....	....	....	....	"	Clean.
....	....	1	....	....	....	....	....	....	Old; dilapidated	Very poor.
4	2	3	....	....	....	....	1	Mumps	Satisfactory	Clean; adequate.
7	....	2	....	....	....	....	....	....	"	" "
14	1	....	....	....	....	....	....	....	"	Yes.
1	1	4	....	....	....	....	....	....	Heating defective	"
....	....	....	....	....	....	....	....	....	Satisfactory	Insufficient.
2	....	....	....	....	....	....	....	Smallpox	Fair	Yes.

RURAL AND

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Heriot Bay	W. F. Shaw		11	11	....	....	....	....	1	5	5
Heywood's Corners	P. D. van Kleeck		12	11	....	....	....	1	....	1	2
Highlands	Richard Felton		12	8	....	....	....	....	....	....	....
Hillier	L. T. Davis		17	17	....	....	....	....	....	....	....
Hilltop	W. Truax		13	12	....	....	1	....	2	1	3
Hilton	G. Williams		22	18	....	....	....	....	....	....	....
Hope	J. C. Elliot		59	56	....	....	....	9	4	8	16
Hope Station	"		6	7	....	....	....	1	....	....	1
Hornby Island	H. Meadows		9	9	....	....	....	....	....	....	....
Hosmer	Douglas Corsan		19	18	....	....	6	....	3	3	5
Houston	C. H. Hankinson		11	11	....	....	2	....	7	7	8
Howe Sound	F. Inglis		85	68	2	....	16	....	....	11	7
Hulatt	W. Ross Stone		16	16	....	....	....	....	5	5	6
Hume	A. V. Jones		193	193	....	....	4	1	13	13	13
Hupel	H. W. Keith		10	7	....	....	....	....	....	1	1
Huscroft	G. B. Henderson		10	10	....	....	4	....	....	....	1
Ingram Mountain	J. M. Burnett		7	7	....	....	....	....	....	....	1
Invermere	F. E. Coy		14	10	....	....	....	....	....	1	1
Isabella Point	E. M. Sutherland		14	14	....	....	....	....	2	2	3
Jaffray	J. F. Saunders		44	37	....	....	3	....	10	10	10
Jordan River	Richard Felton		18	18	....	....	2	....	....	2	4
Kedleston	G. Williams		13	9	....	....	....	....	....	1	2
Kelowna, East	W. J. Knox		41	41	....	....	3	1	5	5	6
Kelowna, North	"		22	22	3	....	1	....	2	2	3
Keremeos	M. D. McEwen	Miss P. Smith	79	79	....	1	....	....	....	2	8
Kettle River, North	W. Truax		7	7	....	....	1	....	1	....	1
Kettle Valley	J. M. Burnett		14	11	....	....	....	....	1	1	3
Kildonan	A. D. Morgan		11	11	....	....	1	....	....	1	4
Killarney	Lee Smith		19	19	1	....	1	....	1	2	10
Kimberley	D. P. Hanington		60	56	....	....	6	4	....	....	5
Kingsgate	G. B. Henderson		10	9	....	1	1	....	....	....	....
Kinnaird	J. B. Thom		16	15	1	....	2	2	....	2	5
Kitchener	G. B. Henderson		17	17	1	....	1	....	....	....	1
Knutsford	H. H. Murphy		10	8	....	....	2	....	1	1	2
Koch Siding	A. V. Jones		19	19	....	....	....	....	2	2	2
Krestova	"		12	12	....	....	....	....	3	3	3
Lac du Bois	C. J. M. Willoughby		8	7	....	....	....	....	....	....	....
Lakes District	W. Ross Stone		12	12	....	....	....	....	1	1	1
Landry	W. A. Watson		7	2	....	....	....	....	....	1	1
Langford	Richard Felton	Miss O. Gawley	45	39	....	....	5	....	....	1	2
Lee Creek	W. Scatchard		11	10	....	....	....	....	....	5	5
Lillooet	A. C. Nash		50	42	....	....	....	1	....	....	1
Lister	G. B. Henderson		37	34	3	....	2	....	..	2	2
Little Fort	H. H. Murphy	Miss McKenzie	35	30	....	....	1	....	....	5	5
Long Lake	C. J. M. Willoughby		10	9	....	....	....	....	1	1	1
Louis Creek	"		12	12	....	....	1	....	....	2	3
Lucerne	T. O'Hagan		36	21	....	....	2	1	3	3	3
Lumby	G. Williams		55	50	....	...	1	....	2	2	5
Lund	W. F. Shaw		34	33	....	....	1	....	2	2	21
Lytton	H. R. Fort		28	25	3	3	4	3	4	5	7
Mable Lake	G. Williams		20	19	....	....	....	....	1	1	3
Magna Bay	W. Scatchard		19	15	....	2	1	....	....	5	5
Mapes	W. Ross Stone		17	17	....	....	....	....	3	3	4
Mara	H. W. Keith		58	52	....	1	3	....	1	2	20
Martin's Prairie	C. J. M. Willoughby		38	18	....	....	5	....	....	1	2
Marysville	J. J. McClintock		20	13	....	....	....	....	....	....	6
Mayne Island	E. M. Sutherland		21	21	....	....	....	....	1	1	3
Meadow Spur	John Nay		....	12	4	1	6	1	2	2	2
Meadow Valley	F. W. Andrew		19	18	1	....	4	1	....	7	3
Metchosin	Richard Felton		48	33	1	....	1	2	....	4	5
Michel	R. C. Weldon		123	115	1	....	7	....	4	13	28
Michel, New	"		158	152	12	4	16	1	8	13	21
Midway	J. M. Burnett		32	31	4	....	3	....	4	4	7
Mill Bay	H. N. Watson		32	17	....	....	1	....	3	4	6
Mill Plant	Lee Smith		45	27	....	....	1	....	5	8	19
Minto	G. K. McNaughton		50	48	10	3	4	5	13	4	23

ASSISTED SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
7	....	....	Cardiac, 1	....	....	....	....	....	Good	Clean; adequate.
4	2	2		....	....	....	....		"	Yes.
2	....	1		....	....	....	....		"	Bad; inadequate.
9	....	....		....	....	....	....		Very sanitary	Excellent.
3	....	....		....	....	....	....		Fair	Fair.
1	....	....		....	....	....	....		Good	Good.
27	....	2	Anæmia, 1	....	....	1	....		"	"
2	....	1		....	....	....	....		Poor	Poor.
....	....	....		....	....	....	....		Very good	Yes.
6	....	9	Cardiac, 4	....	....	....	....		Good	Fair.
6	2	1		....	....	....	....	Chicken-pox	"	Poor; insufficient.
35	1	1		....	....	....	....	Mumps and whooping-cough	"	Yes.
4	....	....		....	....	....	....		Good; poorly heated	"
67	....	2	Cardiac, 1	....	....	....	..		Good	Clean.
2	....	2		....	....	1	....		"	Yes.
2	....	....		....	....	....	....		"	Clean.
1	....	....		....	....	....	....		Fair	Good.
4	....	....		....	....	....	....	Measles, 1	Well ventilated	Clean.
2	1	....	Cardiac, 1	....	....	1	....		Dark	Fair.
27	1	1		....	....	....	....		Good	Good.
3	1	....	Stammer, 2	....	....	....	....		"	Require renewal.
1	....	1		....	....	....	....		"	Good.
4	1	5	Curvature of spine, 2; chronic bronchitis, 2; weak lungs, 2	....	....	....	....	Chicken-pox	"	Clean; adequate.
2	....	1	Anæmic, 3	....	....	....	....	Mumps	"	" "
18	1	1		....	....	....	....	Diphtheria, 3	Satisfactory	Yes.
2	1	....		....	....	....	....		Poor	Poor.
4	....	....		....	....	....	....	Pertussis	Good	Good.
6	....	1		3	....	....	....		"	"
6	....	7		....	....	....	....		"	Yes.
9	....	....		....	....	....	....	Mumps	Excellent	Clean; adequate.
....	....	....		....	....	....	....		Good	Clean.
5	....	3		....	....	....	....		Needs entry	Poor.
4	....	1	Pott's disease, 1	....	....	....	....		Good	Clean; adequate.
....	....	1		....	....	....	....		Poor	Yes.
2	2	2		....	....	....	....		Good	Clean.
1	1	1		....	....	....	....		"	"
1	....	....		....	....	....	....		Satisfactory	Satisfactory.
3	....	1		....	....	....	....		Good	Good.
....	....	....	Cardiac, 1	....	....	....	....		Poor	Fair.
1	2	....	Asthma, 2; eczema, 1; anæmia, 2; cardiac, 1	....	....	....	....	Scarlet fever	Crowded; heating and ventilation satisfactory	Clean; adequate.
5	1	6		....	....	....	....		Fair	Fair.
28	2	....		....	....	....	....		Junior division crowded	Clean.
10	....	3		....	....	....	....		Good	Clean; adequate.
1	1	2	Ganglion wrist, 1; cataract, 1; enucleated eye, 1	....	....	....	....		Overcrowded	Yes.
1	1	....		....	....	....	....		Satisfactory	Satisfactory.
4	....	....		....	....	....	....		"	"
5	....	....		....	....	....	....	Measles, 11; gastro-enteritis, 3	Overcrowded	Very primitive.
10	2	4		....	....	....	....	Measles, 8	Good	Good.
14	....	....		....	....	....	....		"	Clean; adequate.
15	6	11		1	....	....	....	Influenza; mumps	Fair	Dirty.
2	1	2		....	....	....	....	Measles, 3	Good	Good.
8	1	11		....	....	....	1		Fair	Fair.
4	....	....		....	....	....	....		Good	Yes.
11	1	12		....	....	....	....		"	"
5	....	1		....	....	....	....		Satisfactory	Satisfactory.
4	....	....		....	....	....	....		....	....
10	6	....	Anæmic and cardiac, 1	....	....	....	....		"	Satisfactory.
4	....	3		....	....	....	....		"	Yes.
8	5	6		....	....	....	....	Vaccinated, 14; not vaccinated, 4	Fair	Fair.
5	2	....		....	....	....	....	Scarlet fever, 2	Satisfactory	Clean; adequate.
88	8	80	Cardiac 1; defective speech, 1; sty, 1; internal strabis, 1	....	....	....	....	Scarlet fever; chicken-pox; measles	Crowded; dirty	Very dirty.
114	10	78	Chorea, 1; cardiac, 1; blepharitis, 1; club-foot, 1; internal strabis, 4	....	....	....	....	Scarlet fever; measles	Dirty	Filthy.
6	6	3	Eczema, 1	....	....	....	1	Pertussis	Good	Good.
2	....	....		4	....	....	....	Whooping-cough	Satisfactory	Clean; adequate
16	....	7		....	....	....	....		Good	Yes.
31	20	8	Wax in ears, 13; catarrh, 6; anæmia, 2; blepharitis, 5; cardiac, 1; conjunctivitis, 1; irregular teeth, 2; nervous, 1; skin-disease, 4	....	....	....	....	Measles	Heating and ventilation good	Clean; adequate.

RURAL AND

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Mission Creek	W. J. Knox		43	43	1	....	3	....	2	2	8
Miocene	F. Vere Agnew		7	7	....	....	....	....	....	....	1
Monte Creek	C. J. M. Willoughby		9	9	....	....	1	....	1	3	3
Morrissey	Douglas Corsan		11	9	....	....	1	....	....	....	2
Mount Ingersoll	E. H. S. McLean	Miss F. M. Whita-	8	7	1	....	1	....	1	2	3
Moyie	Drs. Green & Mackinnon	[ker	25	17	....	....	....	....	....	....	2
Myncaster	J. M. Burnett		8	7	....	....	....	....	1	1	1
McConnell Creek	A. J. Stuart		13	11	....	....	1	....	....	1	1
McGuire	J. F. Saunders		10	9	....	....	....	....	1	1	1
Nakusp	E. H. S. McLean		80	80	2	....	7	1	19	20	21
Nanaimo Bay	T. J. McPhee		81	73	1	....	2	....	1	1	7
Nanoose Bay	L. T. Davis		21	21	....	....	....	....	....	....	....
Naramata	F. W. Andrew		58	49	10	....	9	....	....	10	13
Nechako	W. Ross Stone		16	16	....	....	3	....	3	3	3
Needles	J. E. H Kelso		17	17	....	....	....	....	....	....	....
New Denver	W. E. Gomm		79	78	1	....	26	....	1	1	20
Newgate	J. F. Saunders		10	10	....	....	....	....	3	3	3
Nickel Plate Mine	M. D. McEwen	(School closed.)									
Nicomen	A. J. Stuart		28	19	1	....	2	....	....	3	5
Nicomen North	"		22	16	....	....	1	....	....	....	4
Nine-mile Creek	J. B. Thom	(School closed.)									
Norwegian Creek	J. M. Burnett		11	7	....	....	....	....	1	1	3
North Bend	H. R. Fort		61	56	4	3	6	3	9	5	10
Northfield	T. J. McPhee		56	51	....	....	....	....	2	4	8
North Thompson, West	H. H. Murphy		12	9	....	....	....	....	2	2	2
Notch Hill, Lower	W. Scatchard		21	19	....	....	....	....	....	6	6
Notch Hill, Upper	"		19	16	....	....	....	....	....	9	9
No. 7 Mine	G. K. MacNaughton		60	56	9	2	2	10	2	2	8
Ocean Falls	John Christie		142	127	....	....	14	....	1	1	11
Okanagan	W. J. Knox		41	40	....	....	2	....	4	4	7
Okanagan Centre	"		10	10	1	1	1	....	2	2	3
Okanagan Falls	H. McGregor		20	18	1	1	1	....	2	2	4
Okanagan Landing	G. Williams		31	29	....	....	....	....	2	2	10
Okanagan South	W. J. Knox		48	46	2	1	3	1	2	2	3
Okeover Arm	W. F. Shaw		10	10	1	....	2	....	....	....	3
Olalla	M. D. McEwen		10	10	....	2	....	....	....	....	6
One-mile Creek	Lee Smith		11	10	....	....	....	....	2	4	9
150-Mile House	F. Vere Agnew		15	13	....	....	1	....	....	....	5
Osooyos	H. McGregor		7	7	....	....	1	....	....	....	....
Otter Point	Richard Felton		19	16	....	....	2	....	....	....	3
Outlook	W. Truax		21	20	....	....	....	....	2	3	4
Oyama	G. Williams		68	65	....	....	1	....	1	1	3
Oyster	J. E. Montgomery		20	17	....	....	....	....	6	6	6
Oyster, North	"		29	26	....	....	....	....	6	6	6
Pachelqua	A. C. Nash		12	9	....	....	....	....	....	....	....
Park Siding	John Nay		....	8	....	....	1	1	....	....	2
Parksville	L. T. Davis		50	50	....	....	....	....	....	....	....
Pass Creek	A. V. Jones		35	35	....	....	....	....	2	2	2
Passmore	"		9	9	....	....	....	....	1	1	1
Pemberton Meadows	N. J. Paul		13	13	....	1	2	....	1	3	3
Pemberton Range	C. J. M. Willoughby		10	5	....	....	....	....	....	2	2
Pender Harbour	Andrew Henderson		13	8	3	1	....	....	1	1	5
Pender Island	E. M. Sutherland		30	30	....	....	1	....	....	....	1
Perry Siding	A. V. Jones		18	18	....	....	....	....	1	1	1
Popcum	J. C. Elliot		17	18	....	....	....	1	....	....	1
Port Alice	O O. Lyons		57	48	....	....	2	....	6	6	15
Pouce Coupe	W. A. Watson		20	11	....	....	2	....	....	....	4
Pouce Coupe, North	"		23	19	....	....	3	....	....	2	5
Powell River	Andrew Henderson		252	243	40	5	8	3	25	41	77
Princeton	Lee Smith		142	127	2	....	5	....	12	37	70
Princeton, East	"		19	16	....	....	....	....	4	7	8
Procter	G. C. Read		....	38	....	....	1	....	....	3	4
Puntledge	G. K. MacNaughton		20	16	2	....	....	....	2	....	3
Qualicum Beach	L. T. Davis		59	59	....	....	1	....	....	1	2
Quatsino	O. O. Lyons		28	16	....	....	....	....	3	3	4
Red Gap	L. T. Davis		13	13	....	....	....	....	....	....	....

ASSISTED SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
6	2	6		....	1	....	....	Measles, 1; mumps, 5; chicken-pox, 5	Good	Clean; adequate.
6	1	....		....	....	....	....		Ceiling low	Yes.
6	....	1		....	....	....	....	Measles	Satisfactory	Satisfactory.
5	....	8	Cardiac, 1	....	....	....	....		Badly kept	Clean; adequate.
4	....	4		....	....	....	....		Average	Yes.
2	....	3		....	....	....	....			
2	1	....		....	....	....	....		Fair	Good.
2	....	....		....	....	....	....		Satisfactory	Clean; adequate.
2	....	1		....	....	....	....		Good	Good.
53	7	10	Skin-eruption, 1; chorea, 1; congenital cleft palate, 1; fingers amputated, 2	....	....	....	....		Average	Yes.
7	7	4	Cardiac, 2	....	....	....	....	Measles, 3; mumps, 3	Good	Good.
4	....	....		....	....	....	....		Sanitary	Excellent.
17	9	6	Acne, 2	....	....	....	....	Chicken-pox, 2	Good	Good.
8	...	1		....	....	....	....	Chicken-pox	Good; poorly heated	Yes.
....	1	2		....	....	....	....		Good	Good.
14	4	23	Cardiac, 2; old hip-disease, 1	....	....	....	....		"	"
3	2	....	Deformed chest, 2	....	....	....	....		"	"
3	....	....		....	....	....	....		Satisfactory	Clean; good.
4	....	....	Cardiac, 1	....	....	....	....		"	" "
2	4	1		....	....	....	....	Pertussis	Good	Good.
17	12	15	Chorea, 1; chronic bronchitis, 1	....	....	1	....	Influenza; mumps; whooping-cough	"	Clean.
10	1	1	Cardiac, 1	9	....	1	....	Measles, 5	"	Good.
....	....	....		....	....	....	....		Heating defective	Clean; adequate.
13	....	6		....	....	....	....		Fair	No lids.
9	....	12		....	....	....	....		"	"
39	33	2	Wax in ears, 2; nasal catarrh, 6; anæmia, 1; stammering, 1; blepharitis, 2; nervous, 1; skin-disease, 6; nasal obstruction, 1	1	....	....	....	Measles	Heating and ventilation good	Clean; adequate.
5	9	5	Cardiac, 3	....	....	....	....		Good	" "
3	2	6	Curvature of spine, 2; weak lungs, 2; depressed side, 1	....	....	....	....	Mumps	"	" "
2	1	3	Chorea, 1	....	....	....	....	Chicken-pox, 3	Adequate	" "
6	....	1		....	....	....	....		Good	Good.
4	1	1		....	....	....	....	Measles; diphtheria	"	"
2	1	2	Cardiac, 1; curvature of spine, 1	....	....	....	....		"	"
7	....	....	Mitral regurgitation, 1	....	....	....	....		"	Clean; adequate.
7	3	....		....	....	....	....		Satisfactory	Yes.
1	....	4		....	....	....	....		Fair	"
7	1	1		....	....	....	....		Good	"
5	....	1		....	....	....	....		Fair	Good.
3	....	....	Infantile paralysis and cardiac, 1; nervous, 1	....	16	....	....		Satisfactory	"
4	2	....		....	....	....	....		Fair	Fair.
4	3	8		....	....	....	....	Influenza, 5	Good	"
15	....	....		....	....	....	....		"	Yes.
22	2	....	Cardiac, 1	....	....	....	....		"	"
4	1	....		....	....	....	....		"	Clean.
2	....	1		....	....	....	....		"	Yes.
4	1	1		....	....	....	....		Sanitary	Excellent.
1	1	1		....	5	....	....		Good	Clean.
....	....	....		....	....	....	....		"	"
2	....	2	Cardiac, 1	....	....	....	....		"	Being repaired.
....	....	....		....	....	....	....		Satisfactory	Satisfactory.
2	....	....		....	4	....	....		Old shanty	Dirty; wet.
13	11	....		....	....	....	....		Satisfactory	Good.
2	2	2		....	....	....	....		Good	Clean.
6	....	2		....	....	....	....		Fair	Fair.
16	....	1	Endocarditis, 1	....	....	8	....	Measles	Overcrowded; poorly heated and lighted	Yes.
4	....	2		....	....	....	....		Fair	Fair.
7	....	3	Epilepsy, 1	....	....	....	....		"	"
87	3	8	Heart-disease, 1	....	....	6	2	Measles	Normal	O. K.
65	....	33	Nervous, 1	....	....	....	....		Good	Yes.
7	1	3		....	....	....	....		"	"
4	....	5		2	....	....	....	Whooping-cough	Poor	Poor.
12	8	....	Nasal catarrh, 3; anæmia, 1; blepharitis, 2; wax in ears, 2	....	....	....	....		Good	Adequate; dirty.
12	....	2		...	3	....	....		Sanitary	Excellent.
8	....	....		....	....	....	....		Healthful	No.
2	....	....		....	....	....	....		Sanitary	Excellent.

RURAL AND

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Refuge Cove	W. F. Shaw	(Burned down.)									
Reiswig	G. Williams		2	2	....	....	....	....	....	....	1
Renata	J. E. H. Kelso		19	19	2	....	....	....	....	3	2
Retreat Cove	E. M. Sutherland		7	7	....	....	....	....	....	....	....
Riondel	G. C. Read			8	....	....	....	....	....	....	....
Robert's Creek, East	F. Inglis		27	23	1	....	8	....	....	8	1
Robin's Range	M. G. Archibald	Miss C. W. Thom	25	19	2	....	....	....	....	....	3
Robson	J. E. H. Kelso		22	19	....	....	1	....	....	....	1
Rock Bay	E. H. Gray		9	9	2	1	2	....	....	....	1
Rock Creek	J. M. Burnett		30	17	....	....	....	....	1	1	5
Rock Mountain	"		15	13	....	....	2	....	....	....	3
Rocky Point	Richard Felton		8	8	....	....	....	....	....	....	....
Rooseville	J. F. Saunders. (School closed	at time of visit.)									
Rosebery	W. E. Gomm		9	8	....	....	4	....	....	....	2
Rose Hill	C. J. M. Willoughby		10	9	....	....	....	....	....	1	1
Rose Lake	F. Vere Agnew		12	10	....	....	1	....	1	....	5
Round Lake	C. H. Hankinson		15	10	....	....	....	....	3	3	4
Royston	G. K. MacNaughton		20	20	4	1	3	1	3	1	3
Rutland	W. J. Knox		93	91	3	....	7	2	7	8	10
Saanich, North	A. G. Beale		72	63	....	....	6	1	1	....	8
Sahtlam	H. N. Watson		12	9	....	....	1	....	2	1	2
St. Elmo	J. C. Elliot		10	9	....	....	....	....	1	2	3
Salmo	J. B. Thom		36	32	....	....	4	1	....	3	8
Salmon Bench	P. D. van Kleeck		10	7	1	1	....	....	2	4	6
Salmon River Valley	"		11	9	2	....	....	....	....	3	6
Sandspit	S. Traynor		19	18	....	....	3	3	5	5	9
Saskatoon Creek	W. A. Watson		6	6	....	....	....	....	....	....	2
Saturna Island	E. M. Sutherland		13	9	....	....	....	....	1	1	....
Savary Island	W. F. Shaw		14	14	....	....	2	....	....	1	7
Savona	M. G. Archibald		21	21	....	1	1	1	3	2	5
Savona Road	"		7	6	....	....	....	....	....	....	1
Sechelt	F. Inglis		18	17	1	....	1	....	....	5	3
Seton Lake Creek	A. C. Nash		15	14	....	....	....	....	1	1	1
Seton Portage	"		6	5	....	....	....	....	....	....	....
Shirley	Richard Felton		10	10	....	....	1	....	....	....	....
Shoreacres	A. V. Jones		17	17	....	....	....	....	1	1	1
Shuswap	W. Scatchard		15	15	....	....	....	....	....	3	7
Shuswap, North	"	Miss Ehlers	21	17	....	....	1	....	....	2	2
Shutty Bench	G. C. Read			10	2	....	2	....	....	1	2
Sicamous	E. Buckell		10	10	....	....	2	....	....	1	1
Sidney	A. G. Beale		143	131	1	....	7	1	7	2	32
Silver Creek	E. Buckell		21	14	....	....	....	....	....	....	1
Silverton	W. E. Gomm		78	71	1	....	29	....	1	5	11
Similkameen	M. D. McEwen	(School closed)									
Sinclair	F. E. Coy		9	4	....	....	....	....	....	....	....
Sirdar	G. B. Henderson		14	10	....	....	3	....	....	....	1
Skookumchuck	F. Inglis		8	8	....	....	....	....	....	1	2
Slocan, South	A. V. Jones		26	26	....	....	....	....	2	2	2
Smithers	C. H. Hankinson		80	80	....	1	1	2	4	3	21
Sooke	Richard Felton		65	59	1	....	5	....	1	....	4
Sooke, North	"		12	12	....	....	1	....	....	....	....
Sorrento	W. Scatchard	Miss Ehlers	15	11	....	....	....	....	....	2	2
Spencer	W. Truax		23	21	....	....	....	....	2	1	4
Sproat Lake	J. H. Hamilton		13	12	....	....	....	....	....	....	1
Squamish	N. J. Paul		76	70	....	1	5	....	3	3	8
Squirrel Cove	W. F. Shaw		8	5	....	....	....	....	1	1	3
Stellaco	W. Ross Stone	(School closed)									
Stewart	H. C. Davis		32	29	....	....	5	3	5	5	9
Summit Lake	E. H. S. McLean		13	13	1	....	3	....	1	....	2
Sunnybrae	E. Buckell		10	6	....	....	....	....	....	....	1
Sunnyside	G. Williams		15	15	....	....	....	....	....	....	1
Swanson Bay	R. Grant Lawrence		26	20	....	....	....	....	....	....	3
Syringa Creek	J. E. H. Kelso		8	8	....	....	....	....	....	....	....
Tappen Siding	E. Buckell		24	22	....	....	4	1	....	....	1
Tappen Valley	"		19	18	....	....	....	1	....	....	3
Ta Ta Creek	F. W. Green		10	5	....	....	....	....	....	....	1
Telegraph Creek	Edward Rice		25	25	3	5	5	1	7	4	7
Telkwa	C. H. Hankinson		25	20	....	1	4	....	....	....	3
Three Forks	E. E. Topliff		11	11	....	....	1	....	....	....	1
Thrums	A. V. Jones		32	32	....	....	....	....	5	5	5

ASSISTED SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
....	....	1	.....	....	....	....	....	.....	Good.....	Good.
....	....	7	Rickets, 1; pulmonary T.B.; curvature of spine	....	....	....	....	Measles.....	"	"
2	1	....	.....	....	....	....	....	.....	Satisfactory	Adequate.
....	....	1	.....	....	4	....	....	Whooping-cough.....	Good.....	Fair.
11	2	....	.....	....	....	....	....	.....	"	Yes.
12	....	1	.....	....	....	....	....	.....	"	Poor.
1	....	1	.....	....	....	....	....	.....	Excellent.....	Clean; adequate.
3	....	....	.....	....	....	....	....	.....	O.K.....	Clean; not adequate.
6	3	....	Blepharitis, 1.....	....	....	....	....	Pertussis	Good.....	Good.
2	....	....	.....	....	....	....	....	.....	"	"
....	....	....	Stammer, 2.....	....	3	....	....	.....	Satisfactory	Clean; adequate.
....	....	....	.....	....	....	....	....	.....	Good.....	Good.
2	3	1	Defective wrist, 1.....	....	....	....	....	.....	"	Yes.
....	....	..	.....	....	....	....	....	.....	Satisfactory	Satisfactory.
4	....	....	Eczema, 1	....	....	....	....	.....	Good.....	Yes.
6	2	2	.....	....	....	....	....	Chicken-pox.....	Poor; crowded...	Filthy.
6	9	1	Nasal catarrh, 2; blepharitis, 1; wax in ears, 6; anæmia, 1; nervous, 1; pulmonary, 1	....	....	....	....	Measles.....	Satisfactory	Clean; adequate.
9	2	7	Anæmia, 4; cardiac, 1; chorea, 2	....	....	....	...	Chicken-pox.....	Good.....	Good.
13	....	....	Dull mentally, 1; slight heart-trouble, 1	...	....	....	....	.....	O.K.....	"
3	....	....	.....	....	....	....	....	.....	Draughty.....	Require repairs.
3	....	1	Anæmia, 1.....	....	....	....	....	.....	Fair.....	Fair.
8	....	5	.....	....	....	....	....	Measles.....	Old store; fair....	Good.
1	2	2	Anæmia, 1.....	....	....	....	....	Measles; smallpox.....	Fair.....	Yes.
2	....	....	Depressed fracture of skull, 1..	....	....	....	....	Smallpox.....	Poor	"
13	3	....	Cardiac, 1.....	....	....	....	....	.....	Crowded; poor...	Poor.
3	....	2	.....	....	....	....	....	.....	.....	.....
3	....	....	Cardiac, 1.....	....	....	....	....	Pertussis	Satisfactory	Adequate.
5	....	....	Mitral regurgitation, 1.....	....	....	....	....	.....	Good.....	Clean; adequate.
11	....	5	.....	....	....	....	....	Measles.....	Poor repair.....	Not clean; not adequate.
1	1	1	Wry-neck, 1.....	....	....	....	....	.....	Fair.....	Not adequate.
10	1	..	.....	....	....	....	....	.....	Good.....	Yes.
10	2	....	.....	....	....	....	....	.....	"	Clean.
3	....	1	.....	....	....	....	....	.....	"	"
2	....	....	.....	....	....	....	....	.....	Sufficient at present	Will be improved.
....	....	....	.....	....	....	....	....	.....	Good.....	Clean.
9	....	7	.....	2	....	....	....	.....	Satisfactory	No lids.
3	....	8	.....	....	....	....	....	.....	"	Fair.
2	...	1	.....	....	....	....	....	.....	Good.....	"
2	...	3	.....	....	....	....	....	.....	Extra ventilation recommended	Yes.
30	....	....	Chronic catarrh, 1; cardiac, 4; Dull mentally, 3; nervous, 2	...	....	....	....	.....	O.K.....	O. K..
3	....	2	Eczema, 1.....	....	....	....	....	.....	Satisfactory	Yes.
8	6	17	Old T.B. hip, 1; chorea, 1....	...	....	....	....	.....	Good.....	"
1	....	....	.....	....	....	....	....	.....	"	Clean.
....	....	....	.....	....	....	....	....	.....	"	"
3	...	....	.....	....	....	....	....	.....	"	Yes.
5	2	2	.....	....	....	....	....	.....	"	"
50	5	1	.....	....	....	....	....	Chicken-pox.....	Fair.....	Good.
13	....	4	Anæmia, 1.....	....	....	....	....	Scarlet-fever.....	Satisfactory	Clean; adequate.
3	....	....	Nervous, 1.....	....	....	....	....	.....	"	Adequate; not in good condition.
3	....	6	.....	....	....	....	....	.....	Fair	Fair.
7	4	1	.....	....	....	....	....	.....	Good.....	Not clean.
....	....	....	.....	....	....	....	....	.....	"	Good.
41	3	4	.....	....	....	....	....	Chicken-pox.....	"	Clean; adequate.
3	....	....	.....	....	....	....	....	.....	"	" "
2	1	1	.....	....	....	....	....	.....	.....	.....
9	1	2	.....	....	....	....	....	Whooping-cough; meas-	Average.....	Yes.
1	....	1	.....	....	....	....	....	Measles.....(les	Satisfactory	Not very clean.
2	....	2	.....	....	....	....	....	.....	Good.....	Good.
12	....	..	.....	....	....	....	....	German measles, 1.....	"	Clean; well kept.
....	....	....	.....	....	....	1	....	.....	Fair	Clean; adequate.
3	1	4	.....	..	....	....	....	Measles.....	Satisfactory	Not very clean.
4	2	3	.....	..	....	....	....	Measles; chicken-pox...	Crowded	Yes.
2	....	1	Cardiac, 1.....	....	....	....	....	.....	.....	.....
18	1	....	Orthopædic defects, 2.....	....	....	....	....	Measles.....	Satisfactory	Fair; no covers.
12	1	....	.....	....	....	1	3	Chicken-pox.....	Good.....	Pits.
7	....	8	.....	....	....	....	....	.....	"	Clean; adequate.
5	2	2	.....	....	....	....	....	.....	"	Yes.

RURAL AND

Name of School.	Medical Inspector.	School Nurse.	No. of Pupils enrolled.	No. of Pupils examined.	Malnutrition.	Defective Mentality.	Defective Vision.	Defective Hearing.	Defective Nasal Breathing.	Adenoids.	Enlarged Tonsils.
Tonkawatla	J. H. Hamilton		9	9	....	....	....	....	....	....	....
Topley	C. H. Hankinson		16	13	....	....	....	....	6	6	10
Tranquille	C. J. M. Willoughby		11	9	....	....	1	....	....	2	2
Trapp Lake	H. H. Murphy		14	11	....	....	....	....	....	....	....
Trout Lake	C. J. M. Willoughby		22	13	....	....	1	....	1	1	3
Tulameen	Lee Smith		20	12	....	....	....	....	1	3	6
Turtle Valley	W. Scatchard		17	17	....	...	1	....	....	4	4
Twin Butte	J. H. Hamilton		12	12	..	1	....	....	....	....	....
Ucluelet	Chas. Maclean		12	12	....	....	1	....	....	....	1
Ucluelet, East	"		8	8	1	1	....	....	....	....	....
Union Bay	G. K. MacNaughton		108	106	13	2	13	3	16	4	22
Valdes Island	W. F. Shaw		9	9	....	....	3	...	2	3	6
Vananda	A. Henderson		40	32	4	....	....	....	....	1	9
Vanderhoof	W. Ross Stone		88	86	....	3	3	....	19	19	14
Vesuvius	E. M. Sutherland		27	24	...	....	....	....	....	....	3
Vesuvius, North	"		17	16	....	...	....	....	1	1	....
Vinsulla	M. G. Archibald	Miss C. W. Thom.	23	23	1	....	....	....	2	1	6
Waldo	J. F. Saunders		71	59	....	....	3	....	16	16	16
Waleach	P. S. McCaffrey		12	10	2	....	2	2	....	3	3
Walhachin	S. E. Beech		13	13	...	1	4	..	....	...	7
Wardner	H. S. Christie		38	34	....	....	....	....	11	11	16
Wasa	F. W. Green		9	9	....	....	1	....	....	....	....
Wellington	T. J. McPhee		69	66	1	....	6	....	8	8	8
Wellington, East	"		27	25	1	1	....	....	1	1	2
Wellington, South	"		154	147	1	1	1	....	2	3	16
Westbank Townsite	Wm. Buchanan		39	39	....	....	6	....	....	2	5
Westside	C. J. M. Willoughby		18	18	...	....	1	....	1	6	6
Westview	A. Henderson		12	10	2	1	..	....	....	2	3
Whaletown	W. F. Shaw		16	16	....	....	....	....	....	1	6
White Lake	E. Buckell		16	15	....	....	....	....	....	....	1
William's Lake	F. Vere Agnew		34	29	4	....	3	1	4	....	8
William's Siding	A. V. Jones		10	10	....	....	....	....	1	1	1
Willow River	C. Ewert		.....	6	1	...	....	....	4	2	5
Wilson Creek	F. Inglis		16	9	....	....	....	....	1	3	....
Wilmer	F. E. Coy		12	8	....	....	....	....	....	....	....
Windermere	"		11	7	....	....	....	....	....	....	....
Winlaw	A. V. Jones		30	30	....	....	..	....	6	6	6
Wistaria	A. A. Gray		13	10	....	....	1	....	1	2	5
Wood's Lake	W. J. Knox		43	41	1	....	3	....	7	9	7
Woodfibre	C. G. G. Maclean		33	32	1	...	3	1	1	1	12
Wycliffe	J. J. McClintock		47	47	....	...	1	....	....	....	3
Wynndel	G. B. Henderson		36	30	1	....	4	1	....	2	2
Yahk	"		25	24	2	....	4	..	....	1	3
Yale	P. M. McCaffrey		17	14	3	....	3	2	....	2	6
Ymir	J. B. Thom		30	28	....	....	3	1	....	2	3

ASSISTED SCHOOLS—*Continued.*

Defective Teeth.	Enlarged Glands.	Goitre.	Other Conditions, specify (Nervous, Pulmonary, Cardiac Disease, etc.).	Vermin.	Scabies.	Impetigo.	Ringworm.	Acute Fevers which have occurred during the Past Year.	Condition of Building. State if crowded, poorly ventilated, poorly heated, etc.	Closets. State if clean and adequate.
....	....	....	.....	....	....	....	....	.....	Good.....	Good.
10	2	1	.....	....	....	....	....	Chicken-pox.....	"	Poor; insufficient.
....	....	....	.....	....	....	....	....	Measles.....	Satisfactory	Satisfactory.
1	....	1	Facial acne, 1.....	....	....	....	....	.....	"	Yes.
6	....	....	.....	....	....	....	....	.....	Good.....	Good.
5	....	3	.....	....	....	....	....	.....	Crowded	Yes.
8	1	10	.....	....	....	....	....	.....	Fair.....	Fair.
3	....	....	.....	....	....	....	....	.....	"	"
5	....	....	.....	....	....	....	....	.....	Good.....	Well kept.
3	....	....	Epileptic, 1.....	....	....	....	....	.....	"	"
56	43	5	Nasal catarrh, 6; blepharitis, 7; wax in ears, 35; anæmia, 4; conjunctivitis, 4; nervous, 2; skin-disease, 10; cold, 1	1	1	....	....	.....	"	Clean; adequate.
3	....	....	.....	....	....	....	....	.....	Good.....	" "
6	3	....	.....	....	....	....	....	Measles.....	Fair.....	O. K.
31	....	6	.....	....	....	....	....	.....	Crowded	Good.
12	3	....	.....	....	....	....	....	.....	Satisfactory	Satisfactory.
4	....	....	.....	....	....	....	....	.....	"	"
11	6	15	.....	....	....	....	....	.....	Good.....	Fair.
28	5	10	.....	3	....	....	....	.....	"	Good.
5	....	4	Acute rheumatic fever, 1.....	....	....	....	....	.....	"	"
2	....	1	.....	....	....	....	....	Measles.....	Windows cannot open	Yes.
14	10	1	.....	....	....	....	....	.....	Satisfactory	"
1	....	1	Cardiac, 1	....	....	....	....	.....	.....	.....
7	6	7	.....	....	....	....	....	Measles, 13	Good.....	O. K.
5	1	2	.....	....	....	....	....	Mumps, 9.....	Fair.....	Fair.
22	4	22	.....	....	....	....	....	.....	Good.....	Good.
9	....	33	.....	....	....	....	....	.....	Satisfactory	Satisfactory.
9	....	....	.....	....	....	....	....	Measles.....	"	"
6	....	....	.....	....	....	....	....	"	Fair.....	Clean; adequate.
6	....	....	.....	....	....	....	....	.....	Good.....	" "
3	....	3	.....	....	....	....	....	.....	Satisfactory	Yes.
10	....	1	Cardiac, 1.....	....	....	1	....	.....	Good; heating inadequate	"
....	....	....	.....	....	....	....	....	.....	Good.....	"
3	4	2	.....	....	....	....	....	.....	"	Clean; adequate.
5	3	....	.....	....	....	....	....	.....	"	Yes.
5	....	....	.....	....	....	....	....	.....	Well ventilated...	Clean.
5	....	....	.....	....	....	....	....	Mumps, 1.....	" ...	"
1	....	....	.....	....	....	....	....	.....	Good.....	Yes.
8	....	1	.....	....	....	....	....	.....	Rather crowded...	Only one closet.
7	2	6	Chorea, 1; chronic bronchitis, 1	....	....	....	....	Chicken-pox, 7.....	Good.....	Good.
21	9	....	Mitral regurgitation, 2; nervous, 1	....	....	....	....	Measles, 6; whooping-cough, 4	Poorly lighted....	"
2	....	2	.....	....	....	....	....	.....	.....	.....
4	....	1	Otitis media, 1.....	....	....	....	....	.....	Good.....	Clean; adequate
4	....	....	.....	....	....	....	....	.....	"	Clean.
3	....	....	.....	....	....	....	....	.....	"	Good.
4	....	3	.....	....	....	....	....	.....	Improved.....	Unkept.

REGISTRAR'S REPORT UNDER THE VITAL STATISTICS ACT.

H. E. Young, Esq., M.D., C.M., LL.D.,
Secretary, Provincial Board of Health, Victoria, B.C.

VICTORIA, B.C., July 31st, 1921.

SIR,—I have the honour to submit the Forty-ninth Report of Vital Statistics for the year commencing July 1st, 1920, and ending June 30th, 1921.

POPULATION.

As the official figures for the Dominion census are not available at the time this report is being compiled, it has been decided, as has been the practice in recent years, to again base our estimate of the population mainly upon the number of children enrolled in the public schools of the Province. In the case of agricultural districts, where the population may be regarded as more or less fixed, we shall multiply the number of children enrolled by 5½; and in other districts which may be considered as entitled to a floating population we shall multiply the number of children enrolled by 6½. In the case of private schools, assuming that the majority are situated in places entitled to be considered as having a floating population, we shall multiply by 6. The following is an estimate of the population of the Province:—

School-children, agricultural districts	33,095 × 5½ =	182,023
„ other districts	52,978 × 6½ =	344,357
„ private schools	3,800 × 6 =	22,800
Indians (aborigines)		25,800
Total		575,000

INDIAN RETURNS.

The Indian returns will in all cases be kept apart, and in the tables that immediately follow their numbers will not be included in the balance of the population in striking the rates.

REGISTRATIONS (NOT INCLUDING INDIANS).

The following table shows the total number of registrations for the years 1918–19, 1919–20, and 1920–21; also the rates per thousand of population for births, deaths, and marriages:—

	1918-19. Population, 440,187.	1919-20. Population, 529,887.	1920-21. Population, 549,180.
Registered births	9,010.....20.46	10,002.....18.87	11,532.....20.99
Registered deaths	6,696.....15.21	4,888 ..... 9.22	4,564..... 8.31
Registered deaths less still-born	6,508.....14.78	4,618..... 8.71	4,267 ..... 7.76
Registered marriages	2,829..... 6.42	4,650..... 8.77	4,514..... 8.21

REGISTRATIONS FOR PROVINCE (NOT INCLUDING INDIANS).

The following shows the number of registrations in the various divisions of the Province for the years 1918–19, 1919–20, and 1920–21:—

Divisions and Groups of Divisions.	Births.			Deaths.			Marriages.		
	1918-19.	1919-20.	1920-21.	1918-19.	1919-20.	1920-21.	1918-19.	1919-20.	1920-21.
Victoria	1,324	1,722	1,698	838	728	687	463	755	643
Nanaimo	583	630	625	430	278	257	118	177	174
Vancouver	3,650	3,916	4,627	2,874	2,096	1,944	1,492	2,371	2,283
New Westminster	1,094	1,145	1,385	765	569	550	222	386	443
Ashcroft	168	192	312	143	95	96	43	63	69
Fairview	981	1,001	1,204	570	515	448	185	427	419
Alberni	359	499	560	348	194	202	114	125	164
Beaton	851	897	1,121	728	413	380	192	346	319
Totals	9,010	10,002	11,532	6,696	4,888	4,564	2,829	4,650	4,514

BIRTHS.

The number of birth registrations for the Province for the year 1920–21 is 11,532, as compared with 10,002 in 1919–20, an increase of 1,530, or 15.29 per cent. The numbers of actual births in the same periods are 10,687 and 9,308 respectively, showing an increase for the year

1920–21 of 1,379, or 14.81 per cent. Compared with the year 1918–19, the actual births show an increase of 53.35 per cent.

The number of delayed registrations for 1920–21 is 845, as against 694 in 1919–20.

The rate per thousand of population of actual births for the year 1920–21 is 19.45, as compared with 17.56 for the year 1919–20.

In connection with the birth registrations, reference to the racial origin or nationality of the parents may be of interest. Of a total of 11,532 registrations, 5,491, or 47.61 per cent., give both parents as British, and of these 30.62 per cent. are given as English, 10.53 per cent. as Scotch, 2.53 per cent. as Irish, 0.32 per cent. as Welsh, 3.32 per cent. as Canadian, and 0.24 per cent. as other British; 8,820, or 76.48 per cent. of the total registrations, give the father as being British, and 8,928, or 77.41 per cent., give the mother as British.

The marked increase in the number of Japanese registrations calls for remark. In 1920–21 there were 803 Japanese birth registrations; in the year 1910 the number of registrations was 20, an increase in ten years of 783, or 3,915 per cent.

The number of Chinese registrations for 1920–21 is 311, as against 114 in 1910, an increase of 197, or 171.92 per cent.

The number of births (actual) for the year 1920–21 was 10,687, and the number of registrations of death was 4,564, which gives a natural increase of 6,123, as compared with 4,420 in 1919–20 and 273 in 1918–19.

DEATHS.

The number of deaths registered in 1920–21 is 4,564, as against 4,888 in 1919–20, a decrease of 324, or 6.62 per cent. As compared with the year 1918–19, in which the number of deaths was 6,696, there is a decrease of 2,132, or 31.84 per cent.

Deaths attributed to "Diseases of the Respiratory System" continue to show a marked decrease, having fallen from 818 to 474. Deaths from influenza have fallen from 59 in 1919–20 to 37 in 1920–21.

The number of deaths under the heading "Early Infancy" continues to show an upward trend, being 640 in 1920–21, as against 591 in 1919–20.

Of the total number of decedents, 3,037, or 66.54 per cent., are described as being of British origin, 1,019 males and 721 females were given as married, 1,210 males and 584 females as single, 228 males and 321 females as widowed, 10 males and 5 females as divorced, and the balance were either still-births or not given.

MARRIAGES.

In 1920–21, 4,514 marriages were registered, as against 4,650 in 1919–20, a decrease of 136, or 2.92 per cent. Compared with 1918–19, there is an increase of 1,685, or 59.56 per cent.

The following is a classified list of deaths which have occurred in British Columbia for the years 1915 to June 30th, 1921. This table does not include Indians, for which *see* Indian returns.

	1915.	1916.	1917.	1918. (6 Mos.).	1918–19.	1919–20.	1920–21.
1. General diseases	895	936	965	523	1,242	1,140	1,131
2. Diseases of nervous system and organs of special sense	336	389	380	220	449	445	388
3. Diseases of the circulatory system	479	456	540	293	528	611	646
4. Diseases of the respiratory system	340	494	439	278	2,944	818	474
5. Diseases of the digestive system	260	224	268	109	189	259	287
6. Non-venereal diseases of the genito-urinary system and annexa	163	206	204	102	216	223	264
7. The puerperal state	50	50	59	17	40	47	54
8. Diseases of skin and cellular tissue	7	15	23	8	18	17	13
9. Diseases of bones and organs of locomotion	1	3	3	1	6	12	11
10. Malformations	51	55	51	24	42	45	23
11. Diseases of early infancy	526	438	405	186	447	591	640
12. Old age	70	80	54	37	76	90	95
13. Affections produced by external causes	583	473	455	225	414	543	503
14. Ill-defined, including executions	71	68	50	23	85	47	35
Totals	3,977	3,887	3,896	2,046	6,696	4,888	4,564

For purposes of comparison, the results of the foregoing table have been segregated and each division has been charged with what it is responsible for in the immediate past year. No. 1, "General Diseases," contains returns for "tuberculosis," "cancer," and "influenza." These three items are responsible for 800 deaths, or 17.52 per cent. of all deaths.

ALLOTMENT OF ALL CAUSES OF DEATH TO EACH MINING DIVISION.

Mining Division.	General Diseases.	Nervous System.	Circulatory System.	Respiratory System.	Digestive System.	Non-venereal, Genito-urinary System.	Puerperal State.	Skin and Cellular Tissue.	Bones and Organs of Locomotion.	Malformations.	Early Infancy.	Still-born.	Old Age.	External Causes.	Ill-defined.	Total.
Ashcroft	1	....	2	....	3	3	....	....	.....	....	1	....	....	6	....	16
Barkerville	.....	....	....	....	....	.....	....	....	.....	....	1	....	....	....	....	1
Fort George	6	....	3	8	2	.....	2	....	.....	1	5	1	1	7	1	37
Tete Jaune Cache	.....	....	....	2	2	.....	....	....	.....	....	1	1	....	1	....	7
Clinton	.....	....	....	1	....	.....	1	....	.....	....	....	1	....	....	1	4
Lillooet	.....	....	1	....	1	.....	....	....	.....	....	....	....	1	....	....	3
Quesnel	2	1	3	....	....	1	....	....	.....	....	1	....	1	1	....	10
150-Mile House	.....	1	1	1	....	.....	....	....	.....	....	2	....	....	1	....	6
Yale	5	1	....	1	....	1	....	....	.....	....	1	....	1	2	....	12
Totals	14	3	10	13	8	5	3	....	.....	1	12	3	4	18	2	96
Fairview	12	1	5	9	5	1	....	....	1	....	5	2	1	4	....	46
Greenwood	2	1	2	2	....	.....	....	....	.....	....	....	....	1	1	....	9
Grand Forks	9	....	1	4	3	2	1	....	.....	....	1	....	1	5	....	27
Kamloops	63	13	26	10	13	16	2	1	.....	1	18	5	1	19	1	189
Nicola	7	....	4	2	....	.....	....	1	.....	....	3	....	....	4	....	21
Princeton	1	4	3	1	2	1	1	....	.....	....	2	....	1	4	....	20
Vernon	22	13	23	20	11	6	....	....	.....	....	18	4	3	15	1	136
Totals	116	32	64	48	34	26	4	2	1	1	47	11	8	52	2	448
Beaton	.....	....	....	....	....	.....	....	....	.....	....	....	....	....	....	....	.....
Cranbrook	17	8	16	4	8	2	2	....	.....	1	4	1	1	13	....	77
Fernie	13	6	13	5	4	3	....	....	.....	1	10	3	1	17	5	81
Golden	1	1	2	....	1	....	2	....	.....	....	2	....	....	4	1	14
Kaslo	3	....	2	1	1	....	....	....	.....	....	....	....	....	2	....	9
Nakusp	2	....	4	3	3	1	....	....	.....	....	....	....	....	....	....	13
Nelson	26	7	12	7	7	5	3	....	.....	....	3	2	....	11	2	85
New Denver	3	....	2	7	1	.....	....	....	1	....	1	....	....	2	....	17
Revelstoke	8	3	1	1	4	1	....	....	.....	1	2	....	2	5	1	29
Rossland	3	2	1	2	4	.....	....	.....	.....	....	1	2	....	3	....	18
Slocan City	.....	....	....	1	....	.....	....	....	.....	....	....	....	....	....	....	1
Trail	7	1	5	....	3	2	....	....	.....	....	8	....	1	2	1	30
Trout Lake	1	....	....	....	....	.....	....	....	.....	....	....	....	....	....	....	1
Wilmer	2	....	1	....	....	.....	....	....	.....	....	....	....	....	2	....	5
Totals	86	28	59	31	36	14	7	....	1	3	31	8	5	61	10	380
Victoria City	146	35	65	39	23	38	7	1	1	1	41	31	25	30	4	487
Cowichan	9	5	6	6	1	3	....	....	.....	2	3	....	....	9	....	44
Esquimalt	9	1	10	5	1	2	....	....	.....	....	1	1	2	....	....	32
Ganges	1	2	1	2	....	.....	....	....	.....	....	1	....	3	3	....	13
Oak Bay	7	4	4	1	1	3	....	....	.....	....	1	....	1	3	1	26
Saanich	17	10	8	6	2	3	1	1	.....	....	1	5	4	5	....	63
Unorganized	6	....	4	4	....	.....	....	....	.....	....	1	....	....	6	1	22
Totals	195	57	98	63	28	49	8	2	1	3	49	37	35	56	6	687
Nanaimo City	27	13	12	21	8	13	1	....	1	....	17	....	4	14	1	132
Alert Bay	.....	....	....	1	1	.....	....	....	.....	....	1	....	1	10	....	14
Comox	18	1	10	4	2	1	1	....	.....	....	4	1	1	29	2	74
Ladysmith	8	2	9	1	3	1	....	....	.....	....	3	....	....	3	....	30
Powell River	.....	....	....	....	1	.....	....	....	.....	....	....	1	....	5	....	7*
Totals	53	16	31	27	15	15	2	....	1	....	25	2	6	61	3	257
New Westminster City	46	41	36	20	24	16	3	....	1	....	16	15	5	17	1	241
Burnaby	5	7	10	6	4	4	....	1	.....	3	2	2	1	2	....	47
Chilliwack	10	10	....	6	6	8	....	....	.....	....	6	3	1	4	....	54
Outside	46	44	25	21	7	8	1	....	.....	....	3	13	5	34	1	208
Totals	107	102	71	53	41	36	4	1	1	3	27	33	12	57	2	550
Vancouver City	446	101	214	182	103	92	19	7	6	9	121	151	9	116	5	1,581
South Vancouver	34	12	28	13	8	6	1	....	.....	1	8	16	....	7	....	134
Point Grey	17	5	28	8	1	7	....	1	.....	....	4	1	5	5	....	82
North Vancouver City	14	9	7	9	1	3	1	....	.....	1	6	8	5	5	3	72
North Vancouver District	5	3	4	2	....	.....	....	....	.....	1	....	1	1	1	....	18
West Vancouver	.....	....	....	....	1	2	....	....	.....	....	2	1	1	1	....	8
Richmond	5	4	3	2	3	1	....	....	.....	....	....	....	....	7	....	25
Unorganized	4	3	4	1	....	.....	....	....	.....	....	....	1	....	11	....	24
Totals	525	137	288	217	117	111	21	8	6	12	141	179	21	153	8	1,944

* Three months only.

ALLOTMENT OF ALL CAUSES OF DEATH TO EACH MINING DIVISION—*Continued.*

Mining Division.	General Diseases.	Nervous System.	Circulatory System.	Respiratory System.	Digestive System.	Non-Venereal Genito-urinary System.	Puerperal State.	Skin and Cellular Tissue.	Bones and Organs of Locomotion.	Malformations.	Early Infancy.	Still-born.	Old Age.	External Causes.	Ill-defined.	Total.
Alberni	4	2	5	4	1	....	2	....	.....	....	2	.	1	3	....	24
Anyox	.....	1	1	1	....	1	....	....	.....	....	1	3	....	2	....	10
Atlin	....	....	1	....	....	.....	....	....	.....	....	...	....	....	....	....	1
Bella Coola	3	....	2	1	....	1	2	....	.....	...	....	....	....	3	..	12
Clayoquot	.....	....	....	....	1	1	....	....	.....	....	....	....	....	....	....	2
Fort Fraser	.....	1	....	1	...	1	....	....	.....	....	2	....	....	1	....	6
Hazelton	8	3	3	2	2	1	....	....	.....	....	1	3	....	9	1	33
Fort St. John	.....	....	....	1	...	.....	....	....	.....	....	....	....	....	....	....	1
Hudson Hope	.....	....	....	....	....	.....	....	....	.....	....	....	....	....	....	....	.....
Ponce Coupe	.....	....	2	1	1	.....	....	....	.....	....	....	....	1	1	....	6
Porter's Landing	....	....	....	....	....	.....	....	....	.....	....	....	....	....	....	....	.....
Ocean Falls	1	....	....	1	1	.....	....	....	.....	....	...	2	....	1	....	6
Prince Rupert	17	6	9	8	2	3	1	....	.....	....	5	14	2	19	....	86
Quatsino	1	....	....	1	....	.....	....	....	.....	....	....	2	....	1	1	6
Queen Charlotte	....	....	2	....	..	.....	....	....	.....	....	....	....	....	3	....	5
Stewart	1	....	....	1	....	.....	....	....	.....	....	....	....	....	2	....	4
Telegraph Creek	.....	....	....	....	....	.....	....	....	.....	....	....	....	....	....	....	.....
Totals	35	13	25	22	8	8	5	...	.....	....	11	24	4	45	2	202
Grand totals	1,131	388	646	474	287	264	54	13	11	23	343	297	95	503	35	4,564

The following table of diseases (exclusive of Indian returns) has been compiled from returns of the whole Province from the year 1901 to June 30th, 1921. This table, like the preceding one, has been segregated, and each division shows its liability to or immunity from the diseases contained in the list for the year 1920–21.

Disease.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918 (6 mos.).	1918–19.	1919–20.	1920–21.	Total.
Typhoid fever	32	24	42	34	39	63	72	55	102	92	99	85	42	32	23	24	5	13	9	20	907
Smallpox			2		1		1		1							3		2			10
Measles	6	1	1	1	2	10	6	1	7	11	13	11	1	14	12	6	17	4	9	8	141
Scarlet fever	7	17	8	4	6	4	5	16	14	31	12	18	3		1	7	2	1	5	10	171
Whooping-cough	6	12	3	4	4	26	9	18	15	23	15	27	23	9	37	21	14	19	16	15	316
Diphtheria	31	21	16	10	15	21	29	14	23	68	36	35	11	11	18	19	7	16	40	34	475
Influenza	6	11	6	7	2	26	5	10	5	10	10	11	11	18	36	17	9	285	59	37	581
Tuberculosis (all forms)	111	126	129	167	178	243	180	137	172	316	368	422	403	425	367	413	236	431	443	421	5,688
Cancer (all forms)	48	34	43	34	36	68	49	79	113	148	180	159	205	221	259	248	144	288	318	342	3,016
Bronchitis	22	19	24	16	20	47	44	36	42	60	63	51	47	47	49	36	23	38	37	51	772
Pneumonia	155	115	104	100	110	217	152	153	164	237	258	195	183	157	228	224	131	308	119	118	3,428
Bronchopneumonia							33	46	51	85	124	66	64	62	140	92	48	96	203	222	1,332
Pneumonia following influenza																		2,449	302	14	2,765
Diarrhœa and enteritis	30	22	48	48	45	53	33	59	74	53	130	113	108	72	55	53	17	52	50	65	1,160
Totals	454	402	426	425	458	778	618	624	783	1,134	1,308	1,193	1,101	1,068	1,205	1,163	653	4,002	1,610	1,347	20,752

ALLOTMENT OF SPECIFIED DISEASES TO EACH MINING DIVISION.

Mining Division.	Typhoid Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-cough.	Diphtheria.	Influenza.	Tuberculosis (all forms).	Cancer (all forms).	Bronchitis.	Broncho-pneumonia.	Pneumonia.	Pneumonia following Influenza.	Diarrhœa and Enteritis.	Total.
Ashcroft														1	1
Barkerville															
Fort George								4	1			7	1		13
Tete Jaune Cache											1	1		1	3
Clinton												1			1
Lillooet														1	1
Quesnel							1	1							2
150-Mile House										1					1
Yale							2	1	1						4
Totals							3	6	2	1	1	9	1	3	26
Fairview						1		3	4		4	3		2	17
Greenwood								2			1	1			4
Grand Forks					1			3	3			2		1	10
Kamloops						1		47	8		2	5	1	2	66
Nicola					1	1		3		1		1			7
Princeton					1									1	2
Vernon	1				1			8	5	1	8	7	1	3	35
Totals	1				4	3		66	20	2	15	19	2	9	141
Beaton															
Cranbrook						1		7	5	1		2		1	17
Fernie	1			2			1	4	3	2	1	2		2	18
Golden														1	1
Kaslo									2			1			3
Nakusp										1		1		2	4
Nelson	3					3		7	8	3	1	2		1	28
New Denver								2			2	4			8
Revelstoke								3	3	1				1	8
Rossland									2	1		1			4
Slocan											1				1
Trail						2		1	3					1	7
Trout Lake									1						1
Wilmer								1	1						2
Totals	4			2		6	1	25	28	9	5	13		9	102
Victoria City	1			1	2	3	4	50	51	1	8	28	1	3	153
Cowichan			1				1	2	4	2	1	1			12
Esquimalt					1			4	1		2	2			10
Ganges										1	1				2
Oak Bay					2			1	4	1				1	9
Saanich			1				2	3	4	3		3		1	17
Unorganized								1	3	2	1				7
Totals	1		2	1	5	3	7	61	67	10	13	34	1	5	210

ALLOTMENT OF SPECIFIED DISEASES TO EACH MINING DIVISION—*Continued.*

Mining Division	Typhoid Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-cough.	Diphtheria.	Influenza.	Tuberculosis (all forms).	Cancer (all forms).	Bronchitis.	Broncho-pneumonia.	Pneumonia.	Pneumonia following Influenza.	Diarrhœa and Enteritis	Total.
Nanaimo City	....	....	....	....	....	....	1	13	8	6	8	6	.....	5	47
Alert Bay	....	....	....	....	....	....	....	....	....	....	....	1	.....	1	2
Comox	3	....	....	....	....	....	....	8	6	...	....	4	.....	.....	21
Ladysmith	1	....	....	....	....	....	....	4	2	....	1	....	.....	.....	8
Powell River	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....
Totals	4	....	....	....	....	....	1	25	16	6	9	11	.....	6	78
Vancouver City	5	....	4	2	1	15	8	163	140	19	46	90	6	18	508
South Vancouver	....	....	1	3	1	....	1	6	13	2	4	3	.....	2	36
Point Grey	....	....	1	....	....	....	....	7	6	....	5	2	.....	....	21
North Vancouver City	....	....	....	....	....	4	....	2	9	....	3	6	.....	.....	24
North Vancouver District	....	....	....	....	2	....	....	1	2	....	1	1	....	.....	7
West Vancouver	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....
Richmond	....	....	....	....	....	....	....	3	1	....	2	....	.....	.....	6
Unorganized	....	....	....	....	....	....	....	1	....	....	1	....	.....	.....	2
Totals	5	....	6	5	4	19	9	183	171	12	62	102	6	20	604
New Westminster City	1	....	....	....	...	3	1	16	15	2	....	14	2	9	63
Burnaby	...	....	....	....	....	....	....	4	1	1	1	3	.....	2	12
Chilliwack	1	....	....	....	...	....	1	....	3	2	....	2	1	.....	10
Outside	....	....	....	2	2	....	3	24	8	2	6	9	....	1	57
Totals	2	....	....	2	2	3	5	44	27	7	7	28	3	12	142
Alberni	....	....	....	....	....	....	....	2	1	....	1	2	.....	.....	6
Anyox	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	1
Atlin	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....
Bella Coola	....	....	....	....	....	....	....	2	....	....	....	....	.....	.....	2
Clayoquot	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....
Fort Fraser	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	1
Hazelton	1	....	....	....	....	....	....	3	2	....	1	....	.....	.....	7
Fort St John	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	1
Hudson Hope	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....
Pouce Coupe	....	....	....	....	....	....	....	....	....	....	....	....	.....	....	.....
Porter's Landing	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....
Ocean Falls	....	....	....	....	....	....	....	....	....	....	1	....	.....	.....	1
Prince Rupert	2	....	....	....	...	....	1	3	8	3	2	2	.....	1	22
Quatsino	....	....	....	....	....	....	....	....	....	....	1	....	.....	.....	1
Queen Charlotte	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....
Stewart	....	....	....	....	....	....	....	1	....	1	....	....	.....	.....	2
Telegraph Creek	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....
Totals	3	....	....	....	....	....	1	11	11	4	6	6	1	1	44
Grand totals	20	....	8	10	15	34	27	421	342	51	118	222	14	65	1,344

CANCER.

The number of deaths from cancer for the year 1920–21 is 342, as compared with 318 in the year 1919–20, an increase of 24, or 7.54 per cent. The number of deaths from cancer this year is 8.01 per cent. of all deaths (exclusive of still-births), and the rate is 0.62 per thousand, as compared with 0.60 last year. There were 3 deaths from cancer among the Indians (not included in above).

TUBERCULOSIS.

The number of deaths from tuberculosis (this year, 1920–21) is 421, as compared with 443 for 1919–20, a decrease of 22, or 4.96 per cent. The number of deaths from tuberculosis is 9.86 per cent. of all deaths (exclusive of still-births), and the rate per thousand of population is 0.76, as compared with 0.83 in 1919–20. The above does not include 93 deaths from tuberculosis among the Indians. The following table shows the assignment of the deaths from tuberculosis to the various races:—

Race.	Population.	Deaths.	Per Cent. of Deaths from Tuberculosis.	1920–21. Rate per 1,000 Population.	1919–20. Rate per 1,000. Population.
Whites	516,833	346	67.31	0.66	0.73
Indians (aborigines)	25,800	93	18.09	3.60	3.50
Chinese	14,000	52	10.11	3.71	3.78
Japanese	16,867	22	4.28	1.30	1.20
East Indians	1,500	1	0.19	0.66	4.00
Totals	575,000	514	99.98	...	....

The following information is given as a comparative statement *re* the ages of decedents for the years 1918–19, 1919–20, and 1920–21:—

	1918–19.	1919–20.	1920–21.	Per Cent. of Deaths of 1920–21.
Under 1 year	590	623	651	15.25
1 to 2 years	126	77	61	1.42
2 to 5 years	191	124	96	2.24
5 to 10 years	135	106	105	2.46
10 to 20 years	364	213	167	3.91
20 to 30 years	1,160	423	319	7.47
30 to 40 years	1,505	650	470	11.01
40 to 50 years	777	621	581	13.61
50 to 60 years	548	550	562	13.17
60 to 70 years	486	509	549	12.86
70 to 80 years	364	427	430	10.07
80 to 90 years	155	214	203	4.75
90 years and upwards	24	32	43	1.00
Age and sex not given	83	49	30	0.70
Totals	6,508	4,618	4,267	99.92

In the above table still-born are not included with deaths under one year. In 1918–19 there were 188 still-births reported, 270 for 1919–20, and 297 for 1920–21.

One hundred and seventeen certificates of adoptions were received and filed in this office between July 1st, 1920, and June 30th, 1921.

The following are the cash receipts for 1920–21:—

Vital statistics	$2,938 74
Marriage licences	230 00
Total	$3,168 74

During the year 2,146 searches were made and 2,772 certificates issued. These totals do not include searches and certificates for military or pensions purposes, which are made free of charge.

Letters inward numbered 5,070, as against 4,657 in 1919–20. All tabulated tables follow.

I have the honour to be,
Sir,
Your obedient servant,
HERBERT B. FRENCH,
Deputy Registrar of Births, Deaths, and Marriages.

BIRTHS, JULY, 1920, TO JUNE, 1921 (INCLUSIVE).

Totals.		Registrations (including Delayed Registrations).			Mining Division.	Births for Year.			Totals.	
July, 1919, to June, 1920	July, 1920, to June, 1921	Sex not given.	Female	Male.		Male.	Female.	Sex not given.	July, 1920, to June, 1921	July, 1919, to June, 1920
					Ashcroft Group—					
36	52	....	22	30	Ashcroft	18	11	....	29	32
....	4	....	1	3	Barkerville	3	1	....	4	....
78	129	....	67	62	Fort George	59	64	....	123	78
14	18	....	10	8	Tete Jaune Cache	8	9	....	17	14
12	12	....	5	7	Clinton	5	5	....	10	12
7	10	....	8	2	Lillooet	1	8	....	9	6
21	35	....	21	14	Quesnel	13	19	....	32	21
8	17	....	9	8	150-Mile House	8	9	....	17	8
16	35	....	16	19	Yale	17	11	....	28	14
					Fairview Group—					
49	109	....	65	44	Fairview	38	62	....	100	47
20	28	....	16	12	Greenwood	10	8	....	18	19
64	83	....	38	45	Grand Forks	40	29	....	69	59
358	346	....	175	171	Kamloops	158	163	....	321	325
49	73	....	42	31	Nicola	28	39	....	67	45
34	52	....	27	25	Princeton	24	24	....	48	32
427	479	....	235	244	Vernon	229	223	....	452	412
....	34	....	20	14	West Summerland	14	19	....	33	....
					Beaton Group—					
2	2	....	....	2	Beaton	....	....	....	....	....
146	177	....	91	86	Cranbrook	81	89	....	170	137
168	230	....	108	122	Fernie	106	97	....	203	153
26	53	....	24	27	Golden	24	24	....	48	25
15	35	....	22	13	Kaslo	9	10	....	19	14
19	26	....	14	12	Nakusp	12	14	....	26	19
205	234	....	123	111	Nelson	106	112	....	218	183
24	27	....	9	18	New Denver	15	9	....	24	21
128	128	....	56	72	Revelstoke	72	55	....	127	111
41	56	....	30	26	Rossland	18	21	....	39	32
2	5	....	2	3	Slocan	2	2	....	4	2
104	127	....	61	66	Trail	66	59	....	125	103
4	....	....	....	....	Trout Lake	....	....	....	....	3
13	23	....	11	12	Wilmer	12	11	....	23	13
					Victoria Division—					
1,304	1,229	1	564	664	Victoria City	583	542	....	1,125	1,183
117	137	....	75	62	Cowichan	60	73	....	133	108
50	50	....	21	29	Esquimalt	27	19	....	46	48
30	39	....	17	22	Ganges	16	13	....	29	23
40	33	....	20	13	Oak Bay	13	17	....	30	39
149	172	1	85	86	Saanich	82	81	1	164	142
32	38	....	14	24	Outside	23	13	....	36	32
					Nanaimo Division—					
303	354	....	176	178	Nanaimo City	158	166	....	324	262
12	33	....	16	17	Alert Bay	16	14	....	30	12
214	170	....	67	103	Comox	96	66	....	162	188
81	63	....	32	31	Ladysmith	31	32	....	63	69
20	5	....	2	3	Powell River	3	2	....	5	18
					New Westminster Division—					
436	477	....	232	245	New Westminster City	231	216	....	447	398
140	191	....	102	89	Burnaby	87	101	....	188	135
164	186	....	86	100	Chilliwack	95	83	....	178	130
405	493	....	224	269	Outside	241	203	....	444	370
....	38	....	21	17	Ladner	10	16	....	26	....
					Vancouver Division—					
2,921	3,462	....	1,604	1,858	Vancouver City	1,722	1,521	....	3,243	2,787
499	516	....	255	261	South Vancouver	255	249	....	504	482
98	136	....	65	71	Point Grey	66	63	....	129	91
172	185	....	97	88	North Vancouver City	88	94	....	182	171
54	59	....	24	35	North Vancouver District	34	24	....	58	53
18	21	....	8	13	West Vancouver	13	8	....	21	17
85	177	....	56	121	Richmond	76	44	....	120	73
59	71	....	28	43	Unorganized	41	26	....	67	57
					Alberni Group—					
47	52	....	25	27	Alberni	26	25	....	51	45
38	54	....	27	27	Anyox	27	27	....	54	38
3	1	....	1	....	Atlin	....	1	....	1	3
47	37	1	16	20	Bella Coola	19	15	1	35	47
3	3	....	3	....	Clayoquot	....	3	....	3	3
35	31	....	19	12	Fort Fraser	12	19	....	31	33
78	97	....	47	50	Hazelton	49	46	....	95	73
2	1	....	....	1	Fort St. John	1	....	....	1	2
2	2	....	1	1	Hudson Hope	1	1	....	2	2
35	33	....	12	21	Pouce Coupe	21	12	....	33	33
....	....	....	....	....	Porter's Landing	....	....	....	....	....
185	189	....	84	105	Prince Rupert	89	78	....	167	180
11	16	....	8	8	Quatsino	7	8	....	15	8
11	5	....	2	3	Queen Charlotte	3	2	....	5	11
2	7	....	3	4	Stewart	4	3	....	7	2
....	1	....	1	....	Telegraph Creek	....	1	....	1	....
....	33	....	14	17	Ocean Falls	16	13	....	29	....
10,002	11,532	3	5,482	6,047	Totals	5,538	5,147	2	10,687	9,308

Total registrations, 11,532; total births, 10,687; delayed registrations, 845.

PRELIMINARY TABLE SHOWING DEATHS FOR DIVISIONS BY MONTHS.

Division or Group.	July to December, 1920.						January to June, 1921.						
	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.	Total.
Ashcroft Group	3	6	7	3	5	7	15	14	12	12	4	10	98
Fairview Group	31	31	46	26	35	45	42	35	54	40	35	28	448
Beaton Group	26	28	40	31	28	25	40	44	23	41	24	30	380
Victoria Division	58	60	52	52	69	59	62	54	61	54	60	46	687
Nanaimo Division	11	17	23	26	24	27	20	20	22	26	20	21	257
New Westminster Division	37	37	35	37	41	40	52	68	55	43	58	47	550
Vancouver Division	125	162	140	150	172	194	174	166	191	176	157	137	1944
Alberni Group	13	17	11	20	17	15	18	24	18	15	20	14	202
Totals	304	358	354	345	391	412	423	423	435	408	378	333	4564

TABLE OF DEATHS, SHOWING DIVISION OR GROUP AND AGE, FOR YEAR JULY, 1920, TO JUNE, 1921 (INCLUSIVE).

Division or Group.	Under 1 Year, including Still-born.	1 to 2 Years.	2 to 5 Years.	5 to 10 Years.	10 to 20 Years.	20 to 30 Years.	30 to 40 Years.	40 to 50 Years.	50 to 60 Years.	60 to 70 Years.	70 to 80 Years.	80 to 90 Years.	90 and upwards.	Age not given.	Males.	Females.	Sex not given.	Total, July, 1920, to June, 1921.	Total, July, 1919, to June, 1920.	Increase.	Decrease.	Still-born.
Ashcroft Group	21	...	5	1	2	12	9	15	9	6	7	3	2	4	64	32	...	96	95	1	...	3
Fairview Group	86	9	11	15	16	32	53	48	61	48	41	19	4	5	291	157	...	448	515	..	67	11
Beaton Group	72	1	9	16	22	13	53	51	48	48	27	11	2	7	246	133	1	380	413	..	33	8
Victoria Division	134	8	16	15	19	41	52	78	80	107	74	48	13	2	392	295	...	687	728	..	41	37
Nanaimo Division	46	5	6	1	5	25	41	30	32	32	18	12	2	2	180	68	...	257	278	..	21	2
New Westminster Division	99	7	12	10	18	32	42	71	69	64	80	35	6	5	327	221	2	550	569	..	19	33
Vancouver Division	442	26	32	42	80	146	192	259	240	225	173	72	14	1	1124	820	...	1994	2096	..	152	179
Alberni Group	48	5	5	5	5	18	28	29	23	19	10	3	...	4	151	51	...	202	194	8	...	24
Totals	948	61	96	105	167	319	470	581	562	549	430	203	43	30	2784	1777	3	4564	4888	9	324	297

PRELIMINARY TABLE SHOWING MARRIAGES FOR DIVISIONS BY MONTHS.

Division or Group.	July to December, 1920.						January to June, 1921.						
	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.	Total.
Ashcroft Group	3	6	12	1	7	8	4	1	11	6	6	4	69
Fairview Group	34	68	42	40	26	34	37	14	30	31	24	39	419
Beaton Group	35	35	33	31	26	24	16	13	32	17	21	36	319
Victoria Division	71	79	70	47	43	66	33	49	35	56	33	61	643
Nanaimo Division	20	14	16	14	18	17	10	12	9	14	17	13	174
New Westminster Division	50	38	54	40	29	33	37	26	37	35	19	45	443
Vancouver Division	205	207	244	224	209	207	179	125	127	136	133	287	2283
Alberni Group	11	12	14	19	24	13	12	5	23	8	12	11	164
Totals	429	459	485	416	382	402	328	245	304	303	265	496	4514

MARRIAGES, JULY, 1920, TO JUNE, 1921 (INCLUSIVE).

BRIDEGROOM AND BRIDE BORN IN SAME COUNTRY.

Country.	Total.
Australia	1
Austria	4
Bohemia	2
Belgium	5
British Columbia	190
British West Indies	1
Canada	355
China	23
Denmark	1
Czechoslovakia	1
England	538
Finland	11
France	4
Germany	3
Holland	1
Hungary	2
Iceland	2
Ireland	28
Carried forward	1,171

Country.	Total.
Isle of Man	1
Italy	52
Japan	22
Korea	1
Newfoundland	5
New Zealand	2
Norway	11
Not given	5
Poland	2
Russia	7
Roumania	1
Scotland	178
Sweden	20
Switzerland	1
Turkey	1
United States of America	346
Wales	3
Total	1,830

BRIDEGROOM AND BRIDE BORN IN DIFFERENT COUNTRIES.

Place of Birth.		Total.
Bridegroom.	Bride.	
At sea	U.S. of America	2
Australia	British Columbia	4
"	Canada	1
"	England	9
"	New Zealand	1
"	Scotland	3
"	U.S. of America	4
		22
Argentine	U.S. of America	1
Austria	British Columbia	2
"	England	2
"	U.S. of America	4
		8
Belgium	British Columbia	1
"	England	2
		3
British Columbia	Australia	1
"	Belgium	1
"	Canada	118
"	England	121
"	France	2
"	Finland	1
"	Holland	1
"	Ireland	8
"	India	1
"	Not given	1
"	New Zealand	1
"	Newfoundland	1
"	Norway	2
"	Mexico	1
"	Scotland	40
"	Sweden	2
"	U.S. of America	53
"	Wales	5
"	Channel Islands	1
"	China	1
		362
Bermuda	England	1

Place of Birth.		Total.
Bridegroom.	Bride.	
British W. Indies	Canada	2
"	England	1
"	Isle of Man	1
"	Not given	1
"	Scotland	1
"	U.S. of America	1
		7
Bohemia	British Columbia	1
"	England	1
		2
Brazil	Belgium	1
Canada	Australia	8
"	Austria	1
"	British Columbia	199
"	Belgium	1
"	Denmark	1
"	England	180
"	France	4
"	Germany	3
"	Holland	1
"	Ireland	10
"	Italy	1
"	Japan	1
"	Not given	5
"	New Zealand	2
"	Norway	4
"	Newfoundland	6
"	Mexico	1
"	Russia	2
"	Scotland	65
"	Sweden	5
"	U.S. of America	127
"	Wales	6
"	South Africa	1
		634
Channel Islands	Canada	2
"	England	1
"	Scotland	2
"	U.S. of America	2
		7

MARRIAGES, JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

BRIDEGROOM AND BRIDE BORN IN DIFFERENT COUNTRIES—*Continued.*

PLACE OF BIRTH.		Total.
Bridegroom.	Bride.	
China	British Columbia	5
,,	England	1
,,	Scotland	1
		7
Czechoslovakia	British Columbia	2
Denmark	British Columbia	1
,,	Canada	3
,,	England	2
,,	Russia	1
,,	Scotland	1
,,	Sweden	1
,,	U.S. of America	1
		10
Dutch East Indies	Canada	1
Egypt	England	1
England	Australia	2
,,	Bohemia	1
,,	British Columbia	130
,,	Belgium	2
,,	Canada	176
,,	Denmark	1
,,	France	3
,,	Germany	4
,,	Holland	1
,,	Ireland	24
,,	Italy	1
,,	India	2
,,	Isle of Man	2
,,	Not given	6
,,	New Zealand	2
,,	Norway	5
,,	Newfoundland	1
,,	Poland	2
,,	Russia	1
,,	Scotland	82
,,	Orkney Islands	1
,,	Channel Islands	1
,,	South Africa	5
,,	Wales	11
,,	U.S. of America	76
		542
France	Canada	1
,,	England	2
,,	U.S. of America	3
		6
Finland	British Columbia	3
,,	England	1
,,	Norway	1
,,	Scotland	1
,,	Sweden	2
,,	U.S. of America	3
		11
Galicia	British Columbia	1
Germany	Austria	1
,,	Canada	2
,,	England	3
,,	Holland	1
,,	U.S. of America	2
,,	Wales	1
		10
Gibraltar	Wales	1

PLACE OF BIRTH.		Total.
Bridegroom.	Bride.	
Greece	British Columbia	1
,,	England	3
,,	Scotland	1
,,	Sweden	1
,,	Turkey	1
,,	U.S. of America	4
		11
Holland	British Columbia	3
,,	Canada	1
,,	England	1
,,	U.S. of America	3
		8
Hungary	British Columbia	1
,,	Canada	1
,,	Germany	1
		3
Iceland	Canada	1
India	British Columbia	3
,,	England	4
,,	Canada	2
,,	Norway	1
		10
Ireland	Australia	2
,,	British Columbia	19
,,	Canada	25
,,	England	32
,,	Not given	1
,,	Scotland	16
,,	Sweden	1
,,	Wales	2
,,	U.S. of America	4
		102
Isle of Man	British Columbia	2
,,	Canada	3
,,	England	1
		6
Italy	At sea	1
,,	British Columbia	13
,,	Canada	5
,,	England	6
,,	France	1
,,	Russia	1
,,	Scotland	1
,,	Spain	1
,,	Sweden	1
,,	Switzerland	1
,,	Germany	1
,,	U.S. of America	6
		38
Japan	British Columbia	2
,,	British Guiana	1
,,	England	1
		4
Malta	England	1
,,	Scotland	1
		2
Mexico	U.S. of America	1
New Zealand	British Columbia	1
,,	England	3
,,	Scotland	1
,,	Switzerland	1
		6

MARRIAGES, JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

BRIDEGROOM AND BRIDE BORN IN DIFFERENT COUNTRIES—*Continued.*

PLACE OF BIRTH.		Total.
Bridegroom.	Bride.	
Newfoundland	British Columbia	1
"	Canada	6
"	England	5
"	Scotland	1
"	U.S. of America	1
		14
Not given	British Columbia	2
"	Canada	3
"	China	1
"	England	4
"	Ireland	1
"	Scotland	2
"	U.S. of America	2
		15
Not known	British Columbia	1
"	Scotland	1
		2
Norway	Austria	1
"	British Columbia	8
"	Canada	7
"	England	4
"	India	1
"	New Zealand	1
"	Not given	1
"	Poland	1
"	Scotland	2
"	South Africa	1
"	Sweden	2
"	U.S. of America	14
"	Wales	1
		44
Poland	Canada	1
"	England	2
"	Manchuria	1
		4
Roumania	England	1
"	U.S. of America	1
		2
Russia	British Columbia	2
"	Canada	2
"	England	4
"	Hungary	1
"	Scotland	1
"	U.S. of America	4
		14
Scotland	Australia	4
"	British Columbia	61
"	British Honduras	1
"	Canada	64
"	England	112
"	France	1
"	India	4
"	Ireland	8
"	Isle of Man	2
"	Italy	1
"	Newfoundland	3
"	U.S. of America	30
"	Wales	2
		293

PLACE OF BIRTH.		Total.
Bridegroom.	Bride.	
Serbia	Belgium	1
"	British Columbia	1
"	U.S. of America	1
		3
Slavonia	Canada	1
South Africa	Belgium	1
"	British Columbia	2
"	Canada	1
"	England	1
"	U.S. of America	1
		6
South America	Switzerland	1
Straits Settl'ments	England	1
Sweden	Belgium	1
"	British Columbia	2
"	Canada	3
"	Denmark	1
"	England	5
"	Finland	2
"	Ireland	1
"	Norway	3
"	Scotland	1
"	U.S. of America	19
		38
Switzerland	England	3
"	Germany	1
"	Scotland	2
"	U.S. of America	1
		7
Syria	Canada	1
U.S. of America	At sea	1
"	Australia	1
"	British Columbia	93
"	Belgium	2
"	Canada	132
"	England	76
"	France	3
"	Finland	2
"	Germany	4
"	Ireland	8
"	Italy	2
"	Newfoundland	1
"	New Zealand	2
"	Norway	7
"	Not given	4
"	Scotland	23
"	Sweden	6
"	South Africa	1
"	Ukraine	1
"	Wales	1
		370
Wales	Australia	1
"	British Columbia	7
"	Canada	5
"	England	13
"	Gibraltar	
"	Norway	1
"	Scotland	5
"	U.S. of America	1
		34

MARRIAGES, JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

BRIDEGROOM AND BRIDE OF SAME DENOMINATION.

Denomination.	Total.	Denomination.	Total.
Adventist	6	Greek Orthodox	1
Anglo-Catholic	6	Jewish	10
Baptist	63	Lutheran	78
Bible Student	5	Methodist	297
Brethren	18	Mormon	1
Buddhist	12	Presbyterian	704
Christian	8	Protestant	86
Christian Science	13	Reformed Episcopal	1
Christadelphian	3	Roman Catholic	273
Church of England	811	Salvation Army	7
Church of Christ	1	Spiritualism	1
Confucian	18	Truth-seeker	1
Congregational	16	Unitarian	3
Church of God	1	New Thought	1
Doukhobor	1	Not given	9
Evangelical	1	None	9
Carried forward	983	Total	2,465

BRIDEGROOM AND BRIDE OF DIFFERENT DENOMINATIONS.

Bridegroom.	Bride.	Total.
Adventist	Presbyterian	3
Apostolic Faith	Church of England	1
Baptist	Adventist	1
"	Apostolic Faith	1
"	Brethren	2
"	Confucian	1
"	Congregational	1
"	Christian	2
"	Christian Science	2
"	Church of England	42
"	Lutheran	4
"	Methodist	20
"	Not given	1
"	Presbyterian	37
"	Quaker	1
"	Roman Catholic	4
"	Salvation Army	1
		120
Bible Student	Church of England	1
Brethren	Presbyterian	2
"	Baptist	1
"	Methodist	1
		4
Buddhist	Methodist	2
"	Presbyterian	1
		3
Calvinist	Church of England	1
Church of England	Adventist	3
"	Brethren	1
"	Baptist	42
"	Christian	2
"	Christian Science	6
"	Congregational	11
"	Lutheran	17
"	Methodist	139
"	Not given	1
"	None	1
"	Pagan	1
"	Presbyterian	200
"	Protestant	5
"	Quaker	4
"	Roman Catholic	78
"	Salvation Army	3
"	Spiritualist	1
"	Theosophist	1
"	Church of Christ	1
"	Greek Catholic	1
"	New Thought	1
		519
Church of Ireland	Methodist	1
"	Presbyterian	1
		2
Christian	Baptist	3
"	Church of England	7
"	Confucian	1
"	Lutheran	1
"	Methodist	1
"	Presbyterian	3
"	Roman Catholic	3
"	None	1
		20
Christian Science	Church of England	3
"	Methodist	1
"	Presbyterian	1
		5
Congregational	Brethren	1
"	Baptist	6
"	Catholic Apostolic	1
"	Christian Science	1
"	Church of England	10
"	Lutheran	2
"	Methodist	11
"	Presbyterian	6
"	Protestant	2
"	Roman Catholic	3
		43
Disciples	Presbyterian	1
Dutch Reformed	Methodist	1
"	Church of England	1
		2
Free Church	Christian	1
Greek Catholic	Methodist	1
Greek Orthodox	Adventist	1
"	Church of England	3
"	Lutheran	1
"	Presbyterian	2
"	Roman Catholic	1
"	Protestant	1
		9
Jewish	Church of England	1
"	Methodist	1
		2
Latter Day Saints	Church of England	1

MARRIAGES, JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

BRIDEGROOM AND BRIDE OF DIFFERENT DENOMINATIONS—*Continued.*

Bridegroom.	Bride.	Total.
Lutheran	Adventist	1
"	Baptist	7
"	Christian	1
"	Christian Science	3
"	Church of England	25
"	Church of God	1
"	Congregational	1
"	Free Thought	1
"	Methodist	17
"	Presbyterian	10
"	Protestant	2
"	Roman Catholic	12
"	Reorganized Church of Jesus Christ	1
"	Salvation Army	1
		83
Methodist	Adventist	2
"	Bible Student	1
"	Brethren	3
"	Buddhist	1
"	Christian	4
"	Christian Science	8
"	Church of England	110
"	Confucian	1
"	Congregational	7
"	Evangelical	2
"	Jewish	1
"	Lutheran	10
"	Not given	4
"	Presbyterian	110
"	Protestant	9
"	Roman Catholic	37
"	Baptist	40
		350
Mormon	Roman Catholic	1
"	Presbyterian	1
		2
None	Christian	1
"	Church of England	6
"	Jewish	1
"	Latter Day Saints	2
"	Methodist	6
"	Presbyterian	6
"	Quaker	1
"	Roman Catholic	6
		29
Not given	Church of England	6
"	Lutheran	1
"	Presbyterian	2
"	Reformed Episcopal	1
"	Roman Catholic	2
		12
Protestant	Baptist	5
"	Church of England	9
"	Congregational	1
"	Lutheran	2
"	Methodist	8
"	Presbyterian	12
"	Quaker	1
"	Roman Catholic	18
		56

Bridegroom.	Bride.	Total.
Pentecostal	Methodist	1
Presbyterian	Adventist	5
"	Baptist	60
"	Bible Student	1
"	Brethren	3
"	Catholic Apostolic	1
"	Christian	3
"	Christian Science	7
"	Church of England	277
"	Church of Ireland	1
"	Congregational	16
"	Holiness Movement	1
"	Latter Day Saints	1
"	Lutheran	17
"	Methodist	140
"	Mormon	1
"	Nazarine	1
"	None	2
"	Protestant	11
"	Roman Catholic	46
"	Salvation Army	1
		595
Quaker	Church of England	1
Reform'd Episcop'l	Church of England	1
"	Methodist	1
"	Roman Catholic	1
		3
Reorganized Church of Christ	Christian Science	1
"	Methodist	1
		2
Roman Catholic	Baptist	12
"	Christian	1
"	Church of England	65
"	Congregational	3
"	Greek Catholic	2
"	Lutheran	9
"	Methodist	27
"	None	1
"	Presbyterian	36
"	Protestant	5
"	Reorganized Church of Latter Day Saints	1
"	Universalist	1
"	Apostolic Faith	1
"	Brethren	2
		166
Swiss Church	Presbyterian	1
Union	Mennonite	1
Unitarian	Church of England	3
"	Lutheran	1
"	Methodist	1
"	Presbyterian	1
		6
Universalist	Methodist	1
"	Christian	1
		2

INDIAN BIRTHS, JULY, 1920, TO JUNE, 1921 (INCLUSIVE).

Total.		Registrations (including Delayed Registrations).		Agency.	Births for Year.		Total.	
July, 1919, to June, 1920.	July, 1920, to June, 1921.	Female.	Male.		Male.	Female.	July, 1920, to June, 1921.	July, 1919, to June, 1920.
2	7	4	3	Babine	3	4	7	2
12	13	9	4	Bella Coola	3	9	12	9
14	21	6	15	Cowichan	15	5	20	11
10	68	36	32	Kamloops	24	28	52	7
22	15	6	9	Kootenay	8	6	14	21
2	1	1	..	Kwawkewlth	..	1	1	2
38	85	45	40	Lytton	26	29	55	36
..	2	1	1	Nass River	1	1	2	..
11	2	2	..	New Westminster	..	2	2	11
19	16	6	10	Okanagan	10	6	16	18
27	24	6	18	Queen Charlotte	18	6	24	27
28	9	3	6	Skeena River	4	3	7	28
20	24	12	12	Stikine	8	10	18	12
29	22	11	11	Stuart Lake	11	11	22	27
22	46	23	23	West Coast	23	23	46	18
63	29	15	14	Williams Lake	14	12	26	59
319	384	186	198	Totals	168	156	324	288

PRELIMINARY TABLE SHOWING INDIAN BIRTHS FOR DIVISIONS BY MONTHS.

Agency.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.	Total.
Babine	..	..	..	1	1	..	4	..	..	1	..	..	7
Bella Coola	..	2	..	..	2	..	3	2	..	3	1	..	13
Cowichan	2	2	..	..	1	1	10	..	1	..	2	2	21
Kamloops	15	..	..	..	..	..	..	..	40	13	..	..	68
Kootenay	..	3	1	1	1	1	1	..	3	..	4	..	15
Kwawkewlth	..	..	..	..	..	..	..	1	..	..	..	..	1
Lytton	2	..	1	3	..	1	..	17	25	19	11	6	85
Nass River	..	..	..	..	..	..	..	..	..	..	..	2	2
New Westminster	..	..	..	..	..	..	..	1	..	..	1	..	2
Okanagan	1	..	1	3	1	..	1	1	3	..	1	4	16
Queen Charlotte	..	..	3	5	2	2	3	2	4	2	1	..	24
Skeena River	..	2	..	..	..	2	1	..	..	2	1	1	9
Stikine	11	..	1	1	3	..	..	1	1	2	4	..	24
Stuart Lake	..	..	..	..	10	..	1	..	..	11	..	..	22
West Coast	4	1	1	4	4	2	8	4	4	5	5	4	46
Williams Lake	29	..	..	..	..	..	..	..	..	..	..	..	29
Totals	64	10	8	18	25	9	32	29	81	58	31	19	384

INDIAN DEATHS, JULY, 1920, TO JUNE, 1921, IN AGENCIES.

Agency.	Under 1 Year.	1 to 2 Years.	2 to 5 Years.	5 to 10 Years.	10 to 20 Years.	20 to 30 Years.	30 to 40 Years.	40 to 50 Years.	50 to 60 Years.	60 to 70 Years.	70 to 80 Years.	80 to 90 Years.	90 and upwards.	Age not given.	Male.	Female.	Total.	Totals for July, 1919, to June, 1920.
Babine	2	..	..	..	2	2	..	2	..	..	..	..	..	..	4	3	7	6
Bella Coola	5	2	3	4	8	3	..	3	1	2	1	1	..	..	13	20	33	25
Cowichan	6	4	3	2	11	2	5	1	1	1	6	2	2	..	28	18	46	39
Kamloops	4	2	2	2	3	3	1	2	4	..	1	..	..	1	12	13	25	18
Kootenay	4	3	3	1	..	1	..	3	1	4	4	1	..	..	12	13	25	24
Kwawkewlth	..	..	1	1	..	..	..	1	1	..	1	..	..	..	2	3	5	12
Lytton	4	3	4	3	2	6	1	1	3	1	1	3	1	4	20	17	37	41
Nass River	1	..	..	..	..	2	..	..	2	..	1	..	..	..	3	3	6	1
New Westminster	1	..	..	..	2	4	..	..	..	..	1	1	..	..	8	1	9	18
Okanagan	5	..	4	1	2	..	2	1	1	..	3	1	..	..	13	7	20	11
Queen Charlotte	4	1	..	1	1	1	1	..	..	..	2	..	..	1	10	2	12	10
Skeena River	7	1	1	2	3	1	1	1	1	..	2	..	..	..	9	11	20	15
Stikine	4	..	2	1	5	3	2	1	..	..	2	1	1	..	8	14	22	34
Stuart Lake	6	1	8	1	3	1	3	2	1	1	1	1	..	..	16	13	29	34
West Coast	12	..	..	3	9	2	6	2	4	1	..	1	..	4	22	22	44	37
Williams Lake	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11
Totals	64	17	31	22	51	31	22	20	20	10	26	12	4	10	180	160	340	336

PRELIMINARY TABLE SHOWING INDIAN DEATHS FOR DIVISIONS BY MONTHS.

Agency.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.	Total.
Babine	2	..	..	1	2	..	..	..	..	..	..	2	7
Bella Coola	3	..	1	4	4	1	16	..	..	4	..	..	33
Cowichan	8	1	4	5	5	6	5	3	1	2	3	3	46
Kamloops	10	..	..	..	..	..	..	..	8	7	..	..	25
Kootenay	2	1	3	..	1	2	1	3	3	2	..	2	25
Kwawkewlth	..	..	..	..	..	..	..	5	..	..	..	..	5
Lytton	1	6	1	4	2	1	1	4	6	2	4	5	37
Nass	..	..	..	..	..	..	..	..	2	2	2	..	6
New Westminster	2	1	2	..	1	..	..	2	..	1	..	..	9
Okanagan	..	4	..	1	4	1	1	1	1	2	3	2	20
Queen Charlotte	..	..	2	1	..	..	1	1	3	2	2	..	12
Skeena River	..	..	1	..	..	..	..	4	5	6	4	..	20
Stikine	12	..	..	1	..	..	3	..	1	2	3	..	22
Stuart Lake	..	..	..	2	10	..	2	1	7	3	2	2	29
West Coast	3	3	2	9	3	3	6	2	3	3	5	2	44
Williams Lake	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	43	16	16	28	32	14	33	26	45	38	28	18	340

PRELIMINARY TABLE SHOWING TOTAL INDIAN DEATHS.

Agency.	General Diseases.	Nervous System.	Circulatory System.	Respiratory System.	Digestive System.	Non-venereal Genito-urinary System.	Puerperal System.	Skin and Cellular Tissue.	Bones and Organs of Locomotion.	Malformations.	Early Infancy.	Still-born.	Old Age.	External Causes.	Ill-defined.	Total.
Babine	5	..	1	..	..	..	..	..	..	..	..	1	..	..	..	7
Bella Coola	22	..	..	2	..	..	1	..	..	..	1	..	3	..	4	33
Cowichan	17	2	3	12	2	..	1	..	..	..	..	..	7	..	2	46
Kamloops	9	..	1	4	..	..	..	..	..	..	..	..	..	..	11	25
Kootenay	5	..	..	13	..	..	..	..	..	..	..	..	1	3	3	25
Kwawkewlth	2	..	1	..	..	..	..	..	..	..	..	..	..	..	2	5
Lytton	19	2	1	4	1	..	..	..	..	..	..	..	2	5	3	37
Nass River	3	..	..	1	..	..	..	..	..	..	..	..	1	1	..	6
New Westminster	3	..	..	1	1	..	..	..	..	..	..	..	1	3	..	9
Okanagan	9	..	2	3	3	..	1	..	..	..	..	..	..	..	2	20
Queen Charlotte	4	2	..	2	..	..	..	..	..	..	1	..	1	..	2	12
Skeena River	6	2	2	2	..	..	..	..	..	..	1	..	..	3	4	20
Stikine	4	..	..	9	..	..	..	..	..	..	3	..	2	1	3	22
Stuart Lake	12	2	1	4	1	..	1	..	..	..	2	..	1	1	4	29
West Coast	18	1	4	..	1	1	1	..	..	..	..	1	3	1	13	44
Williams Lake	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totasl	138	11	16	57	9	1	4	1	..	..	8	2	22	18	53	340

PRELIMINARY TABLE SHOWING DEATHS FROM SPECIFIED DISEASES.

Agency.	Typhoid Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-cough.	Diphtheria.	Influenza.	Tuberculosis (all Forms).	Cancer (all Forms).	Bronchitis.	Broncho-pneumonia.	Pneumonia.	Pneumonia following Influenza.	Diarrhœa and Enteritis.	Total.
Babine	1	..	..	..	..	..	1	1	..	..	..	..	..	..	3
Bella Coola	..	..	11	..	..	..	..	11	..	..	1	..	..	..	23
Cowichan	..	..	..	..	..	..	1	14	1	1	3	8	..	1	29
Kamloops	..	1	..	..	..	..	3	5	..	..	..	4	..	..	13
Kootenay	..	..	1	..	..	..	..	4	..	..	1	11	..	..	17
Kwawkewlth	..	..	..	..	..	..	..	1	1	..	..	..	..	..	2
Lytton	..	..	1	..	1	..	1	10	..	..	..	4	..	..	17
Nass River	..	..	..	..	..	..	..	3	..	1	..	..	..	..	4
New Westminster	..	..	..	..	..	..	..	3	..	..	1	..	..	..	4
Okanagan	..	..	2	..	..	..	..	6	1	..	..	2	1	2	14
Queen Charlotte	..	..	..	..	..	..	..	2	..	..	..	2	..	..	4
Skeena River	..	..	..	..	..	..	..	6	..	1	..	1	..	..	8
Stikine	..	..	2	..	..	..	..	2	..	2	1	6	..	..	13
Stuart Lake	..	..	..	..	..	..	..	10	..	..	..	4	..	1	15
West Coast	..	..	..	..	2	..	..	15	..	4	..	..	..	..	21
Totals	1	1	17	..	3	..	6	93	3	9	7	42	1	4	187

INDIAN MARRIAGES, JULY, 1920, TO JUNE, 1921.

Denomination.	Number.	Denomination.	Number.
Anglican	27	Anglican–Methodist	1
Methodist	15	Anglican–None	1
Presbyterian	2	Methodist–Anglican	1
Roman Catholic	68	Methodist–Roman Catholic	1
Total	112	Total	4

Total marriages, 116.

INDIAN DEATHS BY RELIGIONS.

Denomination.	Number.
Anglican	52
Baptist	..
Methodist	52
Presbyterian	11
Roman Catholic	191
Other Christian Beliefs	..
Aboriginal Beliefs	34
Total	340

PRELIMINARY TABLE SHOWING INDIAN MARRIAGES BY DIVISIONS.

Agency.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.	Total.
Babine	..	..	..	..	..	..	..	..	..	1	..	..	1
Bella Coola	..	..	..	..	..	..	..	4	..	..	..	..	4
Cowichan	..	2	..	1	3	1	1	..	3	2	3	.	16
Kamloops	3	..	..	..	..	..	..	..	7	2	..	..	12
Kootenay	2	2	..	..	2	..	1	..	..	..	3	..	10
Kwawkewlth	..	..	..	..	..	..	..	4	4	..	..	..	8
Lytton	2	..	..	..	..	..	1	..	1	2	1	..	7
Nass River	..	..	1	..	..	..	..	..	5	1	..	..	7
New Westminster	..	1	1	..	..	..	..	1	..	..	..	.	3
Okanagan	1	..	..	..	1	..	..	..	1	1	..	7	11
Queen Charlotte	..	..	1	..	..	3	1	..	2	..	1	..	8
Skeena River	..	2	..	1	..	1	1	1	..	1	1	..	8
Stikine	..	..	..	..	..	1	1	..	..	..	..	..	2
Stuart Lake	..	..		..	5	..	..	..	1	4	..	..	10
West Coast	..	..	1	..	1	..	1	..	..	..	..	..	3
Williams Lake	5	1	..	..	..	..	..	..	..	..	..	..	6
Totals	13	8	4	2	12	6	7	10	24	14	9	7	116

CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VICTORIA DIVISION—VICTORIA CITY.	M.	F.	M.	F.	M.	F.
	I.—General Diseases.						
1	Typhoid fever	..	..	..	..	..	..
7	Scarlet fever	..	..	..	..	..	1
8	Whooping-cough	..	..	..	1	..	1
9	Diphtheria	..	..	..	..	..	..
9A	Croup	..	..	..	..	..	..
10	Influenza	1	..	..	..	..	..
14	Dysentery	1	..	..	..	..	..
18	Erysipelas	1	..	..	..	..	..
20	Purulent infection and septicæmia	..	..	..	..	..	..
24	Tetanus, superinduced by wood splinter	..	..	..	..	..	..
28	Tuberculosis of the lungs	..	..	..	..	..	..
28A	Tubercular laryngitis	..	..	..	..	..	..
29	Acute miliary tuberculosis	..	..	..	1	1	1
30	Tubercular meningitis	1	1	..	1	..	..
30A	Tubercular peritonitis	..	..	..	1	..	..
32A	Tuberculosis of spine	..	..	..	..	..	..
34	Tuberculosis of other organs	..	..	..	..	..	..
35	Disseminated tuberculosis, lungs and bowel	..	..	..	..	..	..
35A	Tuberculosis not specified	..	..	..	..	..	..
37	Syphilis	..	..	..	..	..	..
37A	Syphilis, congenital	1	2	..	..	..	..
39A	Cancer of neck	..	..	..	..	..	..
39B	Cancer of lip	..	..	..	..	..	..
39D	Cancer of larynx	..	..	..	..	..	..
39E	Cancer of pancreas	..	..	..	..	..	..
40	Cancer and other malignant tumours of the stomach, liver	..	..	..	..	..	..
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	..	..	..	..	..	..
42	Cancer and other malignant tumours of the female genital organs	..	..	..	..	..	..
43	Cancer and other malignant tumours of the breast	..	..	..	..	..	..
44B	Cancer of prostate	..	..	..	..	..	..
45	Cancer and other malignant tumours of organs not specified	..	..	..	..	..	..
45A	Cancer of bladder	..	..	..	..	..	..
45D	Cancer of kidney	..	..	..	..	..	..
46	Other tumours (tumours of the female genital organs excepted)	..	..	..	..	..	..
47	Acute articular rheumatism and gout	..	..	..	..	..	..
50	Diabetes	..	..	..	..	..	..
50A	Diabetes mellitus	..	..	..	..	..	..
51	Exophthalmic goitre	..	..	..	..	..	..
52	Addison's disease	..	..	..	..	..	..
54A	Anæmia, pernicious	..	..	..	..	..	..
56	Alcoholism, acute	..	..	..	..	..	..
	II.—Diseases of Nervous System and Organs of Special Sense.						
61	Meningitis	..	..	..	..	..	1
61B	Cerebrospinal meningitis	..	..	..	..	..	..
61C	Abscess of brain	..	..	..	..	..	..
63B	Paralysis agitans	..	..	..	..	..	..
64	Cerebral hæmorrhage, apoplexy	1	..	..	..	..	..
65	Softening of the brain	..	..	..	..	..	..
66	Paralysis without specified cause	..	..	..	..	..	..
69	Epilepsy	..	..	..	..	..	..
71	Convulsions of infants	2	1	..	..	..	..
	III.—Diseases of the Circulatory System.						
77	Pericarditis	..	..	..	..	..	..
77A	Myocarditis	..	..	..	..	..	..
78	Acute endocarditis	..	..	..	..	..	..
79	Organic diseases of the heart	..	..	..	..	..	..
79B	Valvular disease	..	..	..	..	..	..
79C	Aortic insufficiency	..	..	..	..	..	..
79D	Fatty degeneration of the heart	..	..	..	..	..	..
79E	Mitral regurgitation	..	..	..	..	..	..
79G	Mitral stenosis	..	..	..	..	..	..
80	Angina pectoris	..	..	..	..	..	..
81B	Aneurism	..	..	..	..	..	..
81C	Arteriosclerosis	..	..	..	..	..	..
82	Embolism and thrombosis	..	..	..	..	..	..
	IV.—Diseases of the Respiratory System.						
89	Acute bronchitis	1	..	..	..	..	..
91	Bronchopneumonia	1	2	..	1	..	..
92	Pneumonia	6	1	1	..	..	..
92A	Lobar	..	..	..	..	..	..

JUNE, 1921 (INCLUSIVE).

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VICTORIA DIVISION—VICTORIA CITY—*Continued.*	M.	F.	M.	F.	M.	F.
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.—*Continued.*						
92D	Pneumonia following influenza	....	....	....	....	....	....
92E	Hypostatic pneumonia	....	....	....	....	....	....
97	Pulmonary emphysema	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
102	Ulcer of the stomach	....	....	....	....	....	....
103	Other diseases of the stomach (cancer excepted)	....	....	....	....	....	....
103A	Gastritis	....	....	....	....	....	....
103B	Ileocolitis	....	1	....	....	1	....
103C	Mucous colitis	....	....	....	....	....	....
104	Diarrhœa and enteritis (under 2 years)	....	1	....	....	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	1	....
108	Appendicitis and typhlitis	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
113	Cirrhosis of the liver	....	....	....	....	....	....
114	Biliary calculi	....	....	....	....	....	....
117	Simple peritonitis (non-puerperal)	....	....	....	....	....	....
117B	Peritonitis, gastric ulcer perforated	....	....	....	....	....	....
117C	Peritonitis, following operation	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
119A	Chronic interstitial nephritis	....	....	....	....	....	....
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
122	Other diseases of the kidneys and annexa	....	....	....	....	....	....
123	Calculi of the urinary passages	....	....	....	....	....	....
124	Diseases of the bladder	....	....	....	....	....	....
124A	Suppression of urine	....	....	....	....	....	....
126	Diseases of the prostate	....	....	....	....	....	....
129	Uterine tumour (non-cancerous)	....	....	....	....	....	....
132	Salpingitis and other diseases of the female genital organs	....	....	....	....	....	....
133A	Cholecystitis	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
135A	Puerperal peritonitis	....	....	....	....	....	....
137	Puerperal septicæmia	....	....	....	....	....	....
137A	Acute nephritis following miscarriage	....	....	....	....	....	....
137B	Uræmia of pregnancy	....	....	....	....	....	....
140	Following childbirth (not otherwise defined)	....	....	....	....	....	....
141A	Placenta prævia	....	....	....	....	....	....
	VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.						
145A	Traumatic cellulitis	....	1	....	....	....	....
	IX.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION.						
146	Diseases of the bones (tuberculosis excepted)	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	1	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	6	3	....	....	....	....
151A	Accident of labour	1	1	....	....	....	....
151B	Non-assimilation of food	1	....	....	....	....	....
151C	Hydrocephalus	1	1	....	....	....	....
152B	Asphyxia	1	....	....	....	....	....
153A	Still-born	20	11	....	....	....	....
153B	Premature	9	9	....	....	....	....
153D	Injury by forceps at birth	1	1	....	....	....	....
153E	Hæmorrhagica neonatorum	5	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
158	Suicide by drowning	....	....	....	....	....	....
159	Suicide by firearms	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VICTORIA DIVISION—VICTORIA CITY.—*Continued.*	M.	F.	M.	F.	M.	F.
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.—*Continued.*						
160	Suicide by cutting or piercing instruments	....	....	....	....	....	....
165	Other acute poisonings	....	....	....	....	....	....
167	Burns (conflagration excepted)	....	....	....	....	....	1
168	Absorption of deleterious gases (conflagration excepted)	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
170	Traumatism by firearms	....	....	....	....	....	....
172	Traumatism by fall	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	1	....
175A	Traumatism, shipyard accident	....	....	....	....	....	....
184	Homicide by other means	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
188	Sudden death	....	....	....	....	....	....
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		62	37	1	5	4	5
	VICTORIA DIVISION—COWICHAN.						
	I.—GENERAL DISEASES.						
6	Measles	....	....	....	....	....	....
10	Influenza	....	....	....	....	....	....
14	Dysentery	....	....	....	....	1	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
45C	Cancer of tongue	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
66	Paralysis without specified cause	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79E	Mitral regurgitation	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	....	....	....
91	Bronchopneumonia	1	....	....	....	....	....
92E	Hypostatic pneumonia	....	....	....	....	....	....
94	Pulmonary congestion, pulmonary apoplexy	....	....	....	....	....	....
96	Asthma	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
117A	Peritonitis-appendicitis	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	1	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	1	1	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	1	....	....	....	....
153B	Premature	....	1	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
155	Suicide by poison	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	1
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
170	Traumatism by firearms	....	....	....	....	....	....
173A	Traumatism by railway-construction	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
		3	4	....	....	1	1

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VICTORIA DIVISION—ESQUIMALT.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
8	Whooping-cough	....	1	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
32A	Tuberculosis of spine	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
37	Syphilis, congenital	1	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
63	Other diseases of the spinal cord	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
78	Acute endocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	2	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
92A	Lobar	....	....	....	....	....	....
94	Pulmonary congestion, pulmonary apoplexy	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
113	Cirrhosis of the liver	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	1	....	....	....	....	....
153B	Premature	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
		2	4	....	....	....	....
	VICTORIA DIVISION—GANGES.						
	I.—GENERAL DISEASES.						
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III—DISEASES OF THE CIRCULATORY SYSTEM.						
79B	Valvular disease	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	....	....	....
91	Bronchopneumonia	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
152A	Atelectasis	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
172	Traumatism by fall	....	....	....	....	....	....
176	Injuries by animals	....	....	....	....	....	....
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JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VICTORIA DIVISION—OAK BAY.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
8	Whooping-cough	1	....	1	...	....	....
30	Tubercular meningitis	....	....	....	....	1	....
40	Cancer and other malignant tumours of the stomach, liver	...	....	...	...	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	...	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	..	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79	Organic diseases of the heart	....	...	....	....	....	....
81c	Arteriosclerosis	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	...	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	...	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	....	1	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
120	Bright's disease	....	....	....	....	...	....
	XI.—DISEASES OF EARLY INFANCY.						
151A	Accident of labour	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	...	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	...	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		1	2	1	....	1	....
	VICTORIA DIVISION—SAANICH.						
	I.—GENERAL DISEASES.						
6	Measles	1	....	....	....	....	....
9A	Croup	1	....	....	....	....	....
10	Influenza	....	....	....	....	1	....
20	Purulent infection and septicæmia	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
30	Tubercular meningitis	....	....	....	....	1	....
35A	Tuberculosis not specified	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
43	Cancer and other malignant tumours of the breast	....	....	....	....	....	....
45	Cancer and other malignant tumours of organs not specified	....	....	....	....	....	....
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
50A	Diabetes mellitus	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	....	1	....	....	....	....
63	Other diseases of the spinal cord	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
69	Epilepsy	....	....	....	....	1	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VICTORIA DIVISION—SAANICH—*Continued.*	M.	F.	M.	F.	M.	F.
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
78	Acute endocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	1	....	....	....	....	....
90	Chronic bronchitis	....	....	....	....	....	....
92	Pneumonia	2	....	....	....	1	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103A	Gastritis	....	1	....	....	....	....
104	Diarrhœa and enteritis (under 2 years)	....	1	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120A	Uræmia	....	....	....	....	....	....
124	Diseases of the bladder	....	....	....	....	....	....
126	Diseases of the prostate	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
140	Following childbirth, diarrhœa, and vomiting	....	....	....	....	....	....
	VIII.—DISEASES OF THE SKIN AND OF CELLULAR TISSUE.						
145A	Pemphigus neonatorum	1	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	4	1	....	....	....	....
153B	Premature	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
170	Traumatism by firearms	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
		10	5	....	....	4	....
	VICTORIA DIVISION—UNORGANIZED.						
	I.—GENERAL DISEASES.						
35A	Tuberculosis not specified	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
43	Cancer and other malignant tumours of the breast	....	....	....	....	....	....
44A	Cancer of lung	....	....	....	....	....	....
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
50A	Diabetes mellitus	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77	Pericarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	....	....	....
90A	Capillary bronchitis following influenza	....	....	1	....	....	....
91	Bronchopneumonia	1	....	....	....	....	....
98A	Œdema of lungs	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151B	Non-assimilation of food	....	1	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VICTORIA DIVISION—UNORGANIZED.—*Continued.*	M.	F.	M.	F.	M.	F.
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
171A	Traumatism by falling tree	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	...	...	....	....	....	...
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	1	....	....	....	....	....
		2	1	1	....	....	....
	NEW WESTMINSTER DIVISION—NEW WESTMINSTER CITY.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
9	Diphtheria	....	....	....	....	....	....
10	Influenza	....	....	....	....	....	1
14	Dysentery	....	....	....	....	1	....
20	Purulent infection and septicæmia	1	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
28A	Tubercular laryngitis	....	....	....	....	....	....
29	Acute miliary tuberculosis	....	....	....	....	....	....
30	Tubercular meningitis	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
37	Syphilis	....	....	....	....	....	....
39D	Cancer of larynx	....	....	....	....	....	....
39G	Cancer of brain and other internal organs	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
43	Cancer and other malignant tumours of the breast	....	....	....	....	....	....
44A	Cancer of lung	....	....	....	....	....	....
45A	Cancer of bladder	....	....	....	....	....	....
45C	Cancer of tongue	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
54A	Anæmia pernicious	....	....	....	....	....	....
55A	Purpura hæmorrhagica	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
60	Encephalitis	....	....	....	....	....	....
61B	Cerebrospinal meningitis	....	....	....	....	....	....
62	Locomotor ataxia	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
66	Paralysis without specified cause	....	....	....	....	....	....
67	General paralysis of the insane	....	....	....	....	....	....
68	Other forms of mental alienation	....	....	....	....	....	....
68A	Maniacal exhaustion	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79A	Cardiac paralysis	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	...
79C	Aortic insufficiency	....	....	....	....	....	....
81B	Aneurism	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
85	Hæmorrhage	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	1	....	....	....	....
90	Chronic bronchitis	....	1	....	....	....	....
92	Pneumonia	2	....	1	....	....	....
92C	Septic pneumonia	....	....	....	....	....	....
92D	Pneumonia following influenza	....	....	1	....	....	....
92E	Hypostatic pneumonia	....	....	....	....	....	....
93	Pleurisy	....	....	....	....	....	....
98A	Œdema of lungs	....	....	....	....	....	...
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103A	Gastritis	....	1	....	....	....	....
103B	Ileocolitis	1	....	....	....	....	....
104	Diarrhœa and enteritis (under 2 years)	1	1	....	....	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	NEW WESTMINSTER DIVISION—NEW WESTMINSTER CITY—*Continued.*	M.	F.	M.	F.	M.	F.
	V.—DISEASES OF THE DIGESTIVE SYSTEM.—*Continued.*						
108	Appendicitis and typhlitis	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	1	....
114	Biliary calculi	....	....	....	....	....	....
115	Other diseases of the liver	....	....	....	....	....	....
117A	Peritonitis-appendicitis	....	....	....	....	....	....
117B	Peritonitis, gastric ulcer perforated	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
122	Other diseases of the kidneys and annexa	....	....	....	....	....	....
124	Diseases of the bladder	....	....	....	....	....	....
124A	Suppression of urine	....	....	....	....	....	....
133A	Cholecystitis	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
135	Puerperal hæmorrhage	....	....	....	....	....	....
137	Puerperal septicæmia	....	....	....	....	....	....
141D	Infective thrombophlebitis (post partum)	....	....	....	....	....	....
	IX.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION.						
146	Diseases of the bones (tuberculosis excepted)	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	2	1	....	....	....	....
153A	Still-born	8	6	....	....	....	....
153B	Premature	7	4	....	....	....	....
153E	Hæmorrhagica neonatorum	....	2	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
157	Suicide by hanging or strangulation	....	....	....	....	....	....
158	Suicide by drowning	....	....	....	....	....	....
167	Burns (conflagration excepted)	....	....	....	....	1	....
169	Accidental drowning	....	....	....	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
170	Traumatism by firearms	....	....	....	....	....	....
172	Traumatism by fall	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
181	Electricity (lightning excepted)	....	....	....	....	....	....
182A	Accidentally smothered in bed	....	1	....	....	....	....
182B	Shipyard accident	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	1	....	....	....	....	....
	*Sex not given, 1.	23	18	2	....	3	1
	NEW WESTMINSTER DIVISION—OUTSIDE.						
	I.—GENERAL DISEASES.						
7	Scarlet fever	....	....	....	....	1	....
8	Whooping-cough	....	1	....	....	1	....
10	Influenza	1	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	1
30A	Tubercular peritonitis	....	....	....	....	....	....
34C	Tuberculosis of intestines	....	1	....	1	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
37	Syphilis	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
45A	Cancer of bladder	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	NEW WESTMINSTER DIVISION—OUTSIDE—*Continued.*	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.—*Continued.*						
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
48	Chronic rheumatism	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
50A	Diabetes mellitus	....	....	....	....	....	....
51	Exophthalmic goitre	....	....	....	....	....	....
54A	Anæmia, pernicious	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	1	....	....	....	....	....
61B	Cerebrospinal meningitis	....	....	....	....	....	....
63A	Acute anterior poliomyelitis	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
67	General paralysis of the insane	....	....	....	....	....	....
70	Convulsions (non-puerperal)	....	....	....	....	....	....
71	Convulsions of infants (teething)	2	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
78A	Endocarditis following rheumatism	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
80	Angina pectoris	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	....	....	....
90	Chronic bronchitis	....	....	....	....	....	....
91	Bronchopneumonia	2	1	....	1	....	....
92	Pneumonia	2	1	....	....	....	....
92A	Lobar	....	....	....	....	....	....
93	Pleurisy	....	....	....	....	....	....
96	Asthma	....	....	....	....	....	....
98	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
102	Ulcer of the stomach	....	....	....	....	....	....
103B	Ileocolitis	....	1	....	....	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
117B	Peritonitis, gastric ulcer perforated	....	....	....	....	....	....
118	Other diseases of the digestive system (cancer and tuberculosis excepted)	....	1	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	1	....	....	1	....	....
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
137	Puerperal septicæmia	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born *	6	6	....	....	....	....
153B	Premature	1	2	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
157	Suicide by hanging or strangulation	....	....	....	....	....	....
158	Suicide by drowning	....	....	....	....	....	....
165	Other acute poisonings	....	....	....	....	....	....
167	Burns (conflagration excepted)	....	1	....	....	....	....
169	Accidental drowning	....	....	....	....	1	1
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....

* Sex not given, 1.

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	NEW WESTMINSTER DIVISION—OUTSIDE—*Continued.*	M.	F.	M.	F.	M.	F.
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.—*Continued.*						
170	Traumatism by firearms	....	....	....	....	....	....
171	Traumatism by cutting or piercing instruments	....	....	....	....	....	....
171A	Traumatism by falling tree	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
186A	Stump-blasting	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		16	15	....	3	3	2
	NEW WESTMINSTER DIVISION—CHILLIWACK.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
10	Influenza	1	....	....	....	....	....
14	Dysentery	....	....	....	....	1	....
20	Purulent infection and septicæmia	....	....	....	....	....	....
39F	Cancer of throat	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
51	Exophthalmic goitre	....	....	....	....	....	....
52	Addison's disease	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
60	Encephalitis	....	....	....	....	....	....
60A	Encephalitis lethargica	....	....	....	....	....	....
61C	Cerebral abscess	1	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
71	Convulsions of infants	1	....	....	....	....	1
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	1	....	....	....	....	....
90	Chronic bronchitis	....	....	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
92D	Pneumonia following influenza	....	....	....	....	....	....
92E	Hypostatic pneumonia	....	....	....	....	....	....
98	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103A	Gastritis	....	1	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
113	Cirrhosis of the liver	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	1	2	....	....	....	....
153B	Premature	1	4	....	....	....	....
153E	Hæmorrhagica neonatorum	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
186A	Shock, scalds	....	....	....	....	1	....
		7	7	....	....	2	1

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	NEW WESTMINSTER DIVISION—BURNABY.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
60A	Encephalitis lethargica	....	....	....	....	....	....
61	Meningitis	....	1	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
81B	Aneurism	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	1	....	....	....	....	....
91	Bronchopneumonia	1	....	....	....	....	....
92	Pneumonia	....	....	1	....	....	....
92B	Following operation	....	....	....	....	....	....
95	Gangrene of the lung	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	2	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
129	Uterine tumour (non-cancerous)	....	....	....	....	....	....
	VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.						
142	Gangrene	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	....	2	....	1	....	....
	XI.—DISEASES OF EARLY INFANCY.						
152	Other diseases peculiar to early infancy	1	....	....	....	....	....
153A	Still-born	2	....	....	....	....	....
153D	Injury by forceps at birth	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
157	Suicide by hanging or strangulation	....	....	....	....	....	....
175A	Traumatism not specified	....	....	....	....	....	....
		8	3	1	1	....	....
	NANAIMO DIVISION—NANAIMO CITY.						
	I.—GENERAL DISEASES.						
10	Influenza	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
39A	Cancer of face	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
50A	Diabetes mellitus	....	....	....	....	....	....
53	Leuchæmia	....	....	....	....	....	....
54A	Anæmia, pernicious	....	....	....	....	....	....
56	Alcoholism, acute	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	NANAIMO DIVISION—NANAIMO CITY—*Continued.*	M.	F.	M.	F.	M.	F.
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	2	....	....	....	1	....
61B	Cerebrospinal meningitis	1	....	....	....	....	....
61C	Abscess of brain	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
66	Paralysis without specified cause	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
80	Angina pectoris	....	....	....	....	....	....
81B	Aneurism	....	....	....	....	....	....
83D	Pyæmia	....	....	....	....	....	....
85	Hæmorrhage	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	2	1	1	....	....	....
91	Bronchopneumonia	2	2	1	....	....	....
92	Pneumonia	....	....	....	....	....	....
92A	Lobar	....	....	....	....	....	....
92C	Septic pneumonia	....	....	....	....	....	....
98	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
100	Diseases of the pharynx	1	....	....	....	....	....
104	Diarrhœa and enteritis (under 2 years)	2	1	....	2	....	....
117A	Peritonitis-appendicitis	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
126	Diseases of the prostate	....	....	....	....	....	....
127	Non-venereal diseases of the male genital organs	....	....	....	....	1	....
131	Cysts and other tumours of the ovary	....	....	....	....	....	....
133A	Cholecystitis	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
141D	Acute endocarditis following miscarriage	....	....	....	....	....	....
	IX.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION.						
149	Other diseases of the organs of locomotion	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	3	....	....	....	....	....
151C	Hydrocephalus	1	....	....	....	....	....
152B	Asphyxia	1	....	....	....	....	....
153B	Premature	5	5	....	....	....	....
153E	Hæmorrhagica neonatorum	1	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
155	Suicide by poison	....	....	....	....	....	....
165	Other acute poisonings	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
173	Traumatism in mines and quarries	....	....	....	....	....	....
184	Homicide by other means	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
187A	Dropsy	....	....	....	....	....	....
		21	10	2	2	2	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	NANAIMO DIVISION—ALERT BAY.	M.	F.	M.	F.	M.	F.
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	....	1	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153B	Premature	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
155	Suicide by poison	....	....	....	....	....	....
159	Suicide by firearms	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	1	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
171A	Traumatism by falling tree	....	....	....	....	....	....
174	Traumatism by machines	....	....	....	....	....	....
		1	1	....	....	1	....
	NANAIMO DIVISION—COMOX.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
28A	Tubercular laryngitis	....	....	....	....	....	....
30	Tubercular meningitis	1	....	....	....	....	....
34B	Tuberculosis of bowels	....	....	....	....	....	....
39A	Cancer of face	....	....	....	....	....	....
39F	Cancer of throat	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
56A	Alcoholism, chronic	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61B	Cerebrospinal meningitis	....	....	....	....	....	1
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
84B	Hodgkin's disease	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	....	1	1	....	....	....
92A	Lobar	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
109	Hernia, intestinal obstruction	....	....	....	....	....	....
115	Other diseases of the liver	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
137	Puerperal septicæmia	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	NANAIMO DIVISION—COMOX—*Continued.*	M.	F.	M.	F.	M.	F.
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	3	....	....	....	....	....
151B	Non-assimilation of food	1	....	....	....	....	....
153A	Still-born	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	1	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
171A	Traumatism by falling tree	....	....	....	....	....	....
173	Traumatism in mines and quarries	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
186A	Explosion, locomotive boiler	....	....	....	....	....	....
186B	Explosion, dynamite	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		6	1	1	....	1	1
	NANAIMO DIVISION—LADYSMITH.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
14	Dysentery	....	1	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
79C	Aortic insufficiency	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	1	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
108	Appendicitis and typhlitis	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
117	Simple peritonitis (non-puerperal)	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120A	Uræmia	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	2	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
173	Traumatism in mines and quarries	....	....	....	....	....	....
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JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	NANAIMO DIVISION—POWELL RIVER.	M.	F.	M.	F.	M.	F.
	(Returns for July, August, September, 1920, only.)						
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
110A	Enterocolitis	....	....	....	....	....	1
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	1	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
		1	....	....	....	....	1
	BEATON DIVISION—CRANBROOK.						
	I.—GENERAL DISEASES.						
9	Diphtheria	....	....	....	....	....	....
20	Purulent infection and septicæmia	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
30	Tubercular meningitis	....	....	....	....	....	....
34B	Tuberculosis of bowels	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
43	Cancer and other malignant tumours of the breast	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
54A	Anæmia, pernicious	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	....	1	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
71	Convulsions of infants	1	1	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
78A	Endocarditis following rheumatism	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
82	Embolism and thrombolis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	....	....	....
92	Pneumonia	1	....	....	....	....	....
98	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	1	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
111	Acute yellow atrophy of the liver	....	....	....	....	....	....
117	Simple peritonitis (non-puerperal)	....	....	....	....	....	....
117A	Peritonitis-appendicitis	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
122	Other diseases of the kidneys and annexa	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
137B	Uræmia of pregnancy	....	....	....	....	....	....
141A	Placenta prævia	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	....	1	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	BEATON DIVISION—CRANBROOK—*Continued.*	M.	F.	M.	F.	M.	F.
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	....	....	....	....	....	....
153B	Premature	3	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
171A	Traumatism by falling tree	....	....	....	....	....	....
175A	Traumatism not specified	....	....	....	....	....	....
176	Injuries by animals	....	....	....	....	....	....
182	Homicide by firearms	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
	*Sex not given, 1.	6	4	....	....	....	....
	BEATON DIVISION—FERNIE.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
7	Scarlet fever	....	....	....	....	....	1
10	Influenza	....	....	....	....	....	....
18	Erysipelas	....	1	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
30	Tubercular meningitis	1	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
56	Alcoholism, acute	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61C	Cerebral abscess	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
71	Convulsions of infants	1	....	....	....	1	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
79G	Mitral stenosis	....	....	....	....	....	....
80	Angina pectoris	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	....	....	....
90	Chronic bronchitis	....	....	....	....	....	....
91	Bronchopneumonia	....	....	....	....	....	....
92	Pneumonia	....	1	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	....	1	....	....	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	....	....
108	Appendicitis and typhlitis	....	....	....	....	....	....
117A	Peritonitis-appendicitis	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
122	Other diseases of the kidneys and annexa	....	....	....	....	....	....
124	Diseases of the bladder	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	1	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	BEATON DIVISION—FERNIE—*Continued.*	M.	F.	M.	F.	M.	F.
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	2	3	....	....	....	....
151B	Non-assimilation of food	....	1	....	....	....	....
153A	Still-born	2	1	....	....	....	....
153B	Premature	....	3	....	....	....	....
153E	Hæmorrhagica neonatorum	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
169	Accidental drowning	1	....	....	....	....	....
169A	Traumatism in logging camp and sawmill	..	....	....	....	....	....
170	Traumatism by firearms	....	....	....	....	....	....
171A	Traumatism by falling tree	....	....	....	....	....	....
173	Traumatism in mines and quarries	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
182A	Accidentally strangled	....	1	....	....	....	....
184	Homicide by other means	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified ori ll-defined	....	1	....	....	....	....
		9	13	....	....	1	1
	BEATON DIVISION—GOLDEN.						
	I.—GENERAL DISEASES.						
50	Diabetes	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
69	Epilepsy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	1	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
136	Other accidents of labour	....	....	....	....	....	....
141A	Placenta prævia	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	2	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
165	Other acute poisonings	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
187A	Dropsy	....	....	....	....	....	....
		3	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	BEATON DIVISION—KASLO.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79B	Valvular disease	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	....	....	....	....	....	....
103B	Ileocolitis	....	1	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
167	Burns (conflagration excepted)	....	..	....	....	....	....
178A	Exposure	....	....	....	....	....	....
		....	1	....	....	....	....
	BEATON DIVISION—NAKUSP.						
	I.—GENERAL DISEASES.						
39E	Cancer of pancreas	....	....	....	....	....	....
41	Cancer and malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79B	Valvular disease	....	....	....	....	....	....
79E	Mitral regurgitation	....	....	....	....	....	....
79G	Mitral stenosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	1	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	1	1	....	....	....	....
108	Appendicitis and typhlitis	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	1	....
		1	2	....	....	1	....
	BEATON DIVISION—NELSON.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	..	....	....	....	....
9	Diphtheria	....	....	....	....	....	1
20	Purulent infection and septicæmia	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
34	Tuberculosis of other organs	....	....	....	....	....	....
35	Disseminated tuberculosis, both kidneys, right hip, left elbow	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
43	Cancer and other malignant tumours of the breast	....	....	....	....	....	....
45A	Cancer of bladder	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
50A	Diabetes mellitus	....	....	....	....	1	....
54A	Anæmia, pernicious	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61C	Abscess of brain	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
66	Paralysis without specified cause	....	....	....	....	....	....
67	General paralysis of the insane	....	....	....	....	....	....
71	Convulsions of infants	....	....	1	....	....	....

JUNE. 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	BEATON DIVISION—NELSON—*Continued.*	M.	F.	M.	F.	M.	F.
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79A	Cardiac paralysis	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
79E	Mitral regurgitation	....	....	....	....	....	....
79G	Mitral stenosis	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	2	....	....	....	....
90A	Capillary bronchitis	....	1	....	....	....	....
91	Bronchopneumonia	1	....	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
96	Asthma	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
102	Ulcer of the stomach	....	....	....	....	....	....
104	Diarrhœa and enteritis (under 2 years)	1	....	....	....	....	....
108	Appendicitis and typhlitis	....	....	....	....	....	....
110	Other diseases of the intestines	1	....	....	....	....	....
111	Acute yellow atrophy of the liver	....	....	....	....	....	....
113	Cirrhosis of the liver	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
137	Puerperal septicæmia	....	....	....	....	....	....
140	Following childbirth (not otherwise defined)	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	1	....	....	....	....
153A	Still-born	2	....	....	....	....	....
153B	Premature	....	1	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
158	Suicide by drowning	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
178A	Exposure	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		6	5	1	....	1	1
	BEATON DIVISION—NEW DENVER.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
56	Alcoholism, acute	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	....	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
92A	Lobar	....	....	....	....	....	....
98	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	BEATON DIVISION—NEW DENVER—*Continued.*	M.	F.	M.	F.	M.	F.
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
109	Hernia, intestinal obstruction	....	....	....	....	....	....
	IX.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION.						
147	Diseases of the joints (tuberculosis and rheumatism excepted)	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
152B	Asphyxia	1	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
173	Traumatism in mines and quarries	....	....	....	....	....	....
186A	Injuries in France	....	....	....	....	....	....
		1	....	....	....	....	....
	BEATON DIVISION—REVELSTOKE.						
	I.—GENERAL DISEASES.						
30	Tubercular meningitis	....	....	....	....	....	....
31	Abdominal tuberculosis	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
45C	Cancer of tongue	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
51	Exophthalmic goitre	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
60	Encephalitis	....	1	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	1	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	....	....
108	Appendicitis and typhlitis	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
115	Other diseases of the liver	....	....	....	....	1	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	....	1	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153B	Premature	1	....	....	....	....	....
153E	Hæmorrhagica neonatorum	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
165A	Overdose of drugs	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
173	Traumatism in mines and quarries	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		2	3	....	....	1	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	BEATON DIVISION—ROSSLAND.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
44A	Cancer of lung	....	....	....	....	....	....
51	Exophthalmic goitre	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
60A	Encephalitis lethargica	1	....	....	....	....	....
70	Convulsions (non-puerperal)	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	1	....	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
100	Diseases of the pharynx	....	....	....	....	....	....
103	Other diseases of the stomach (cancer excepted)	....	....	....	....	....	....
108	Appendicitis and typhlitis	....	....	....	....	....	....
113	Cirrhosis of the liver	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	2	....	....	....	....	....
153B	Premature	1	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
167	Burns (conflagration excepted)	....	....	....	....	....	1
173	Traumatism in mines and quarries	....	....	....	....	....	....
		5	....	....	....	....	1
	BEATON DIVISION—SLOCAN CITY.						
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	....	....	....	....	....
		....	....	....	....	....	....
	BEATON DIVISION—TROUT LAKE.						
	I.—GENERAL DISEASES.						
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
		....	....	....	....	....	....
	BEATON DIVISION—TRAIL.						
	I.—GENERAL DISEASES.						
9	Diphtheria	....	....	....	....	1	....
24	Tetanus	....	....	....	....	....	....
35	Disseminated tuberculosis, lungs and bowels	....	....	....	....	....	....
37	Syphilis	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	1	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	BEATON DIVISION—TRAIL—*Continued.*	M.	F.	M.	F.	M.	F.
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103A	Gastritis	....	....	....	....	....	1
104	Diarrhœa and enteritis (under 2 years)	....	1	....	....	....	....
117B	Peritonitis, gastric ulcer perforated	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	....	....	....	....	....
151B	Non-assimilation of food	3	....	....	....	....	....
153B	Premature	2	1	....	....	....	....
153D	Injury by forceps at birth	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
155	Suicide by poison	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		7	3	....	....	1	1
	BEATON DIVISION—WILMER.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
45C	Cancer of tongue	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
81C	Arteriosclerosis	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
172	Traumatism by fall	....	....	....	....	....	....
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	ALBERNI DIVISION—ALBERNI.						
	I.—GENERAL DISEASES.						
9A	Croup	....	....	....	....	1	....
30	Tubercular meningitis	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79G	Mitral stenosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	1	....	....	....	....	....
92	Pneumonia	1	....	....	....	....	....
92A	Lobar	....	....	....	....	....	....
92E	Hypostatic pneumonia	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	ALBERNI DIVISION—ALBERNI—*Continued.*	M.	F.	M.	F.	M.	F.
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
117A	Peritonitis-appendicitis	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
135A	Puerperal peritonitis	....	....	....	....	....	....
137D	Eclampsia	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	....	....	....	....	....
151B	Non-assimilation of food	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
170	Traumatism by firearms	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
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	ALBERNI DIVISION—ANYOX.						
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
78	Acute endocarditis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92A	Lobar	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120A	Uræmia	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	1	2	....	....	....	....
153B	Premature	1	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
		2	2	....	....	....	....
	ALBERNI DIVISION—ATLIN.						
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
		....	....	....	....	....	....
	ALBERNI DIVISION—BELLA COOLA.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
	III—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....

JUNE. 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	ALBERNI DIVISION—BELLA COOLA—*Continued.*	M.	F.	M.	F.	M.	F.
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
96	Asthma	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
126	Diseases of the prostate	....	....	...	....	....	....
	VII.—THE PUERPERAL STATE.						
137	Puerperal septicæmia	...	....	....	....	....	....
137A	Puerperal infection following miscarriage	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	...	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
		....	....	..	....	....	....
	ALBERNI DIVISION—CLAYOQUOT.						
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
118	Other diseases of the digestive system (cancer and tuberculosis excepted)	....	...	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	...	....	....	....	....
		....	....	....	. .	....	....
	ALBERNI DIVISION—FORT FRASER.						
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	....	....	....	....	...	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92D	Pneumonia following influenza	...	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
124A	Suppression of urine	....	...	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151A	Accident of labour	....	1	....	....	....	....
153D	Injury by forceps at birth	1	....	..	...	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
182	Homicide by firearms	....	....	....	...	....	....
		1	1	....	..	....	....
	ALBERNI DIVISION—HAZELTON.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	...	....	....	....
20	Purulent infection and septicæmia	...	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
28A	Tubercular laryngitis	....	....	....	....	....	....
30	Tubercular meningitis	....	....	....	....	....	....
37	Syphilis	....	....	....	....	....	....
45	Cancer and other malignant tumours of organs not specified	....	....	....	....	....	....
45D	Cancer of kidney	...	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	...	....	....	...	....	....
71	Convulsions of infants	....	1	..	...	....	....
74	Other diseases of the nervous system	....	....	1	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	ALBERNI DIVISION—HAZELTON—*Continued.*	M.	F.	M.	F.	M.	F.
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79	Organic diseases of the heart	....	....	....	....	....	....
80	Angina pectoris	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	....	....	1	....	....
98A	Œdema of lungs	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
109	Hernia, intestinal obstruction	....	....	....	....	....	1
110	Other diseases of the intestines	1	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	....	....	....	....	....
153A	Still-born	3	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
155	Suicide by poison	....	....	....	....	....	....
166	Conflagration	....	....	....	....	....	....
170	Traumatism by firearms	....	....	....	....	....	....
172	Traumatism by fall	....	....	....	....	1	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
178A	Exposure	....	....	....	....	....	....
186	Other external violence, scalds	....	....	....	1	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		5	1	1	2	1	1
	ALBERNI DIVISION—FORT ST. JOHN.						
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	....	....	....	....	....	....
		....	....	....	....	....	....
	ALBERNI DIVISION—POUCE COUPE.						
	III—DISEASES OF THE CIRCULATORY SYSTEM.						
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
93	Pleurisy	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
110	Other diseases of the intestines	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
174	Traumatism by machines	....	....	....	....	....	....
		1	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	ALBERNI DIVISION—OCEAN FALLS.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
30	Tubercular meningitis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	...	1	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103	Other diseases of the stomach (cancer excepted)	....	....	....	..	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	....	2	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
		....	3	....	....	....	....
	ALBERNI DIVISION—PRINCE RUPERT.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
10	Influenza	....	1	...	....	....	....
14	Dysentery	....	1	....	....	....	....
20	Purulent infection and septicæmia	....	....	...	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
34C	Tuberculosis of intestines	...	....	....	....	....	....
39A	Cancer of face	....	....	....	....	....	....
39B	Cancer of jaw	....	....	....	....	....	....
39E	Cancer of pancreas	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
43	Cancer and other malignant tumours of the breast	....	....	....	....	....	...
54A	Anæmia, pernicious	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
60A	Encephalitis lethargica	....	....	....	....	....	....
61	Meningitis	....	....	....	....	1	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
68	Other forms of mental alienation	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	3	....	....	....	....	....
91	Bronchopneumonia	....	....	....	....	....	....
92	Pneumonia	....	....	....	..	....	....
92A	Lobar	....	....	....	....	....	....
94	Pulmonary congestion, pulmonary apoplexy	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
101	Diseases of the œsophagus	....	....	....	....	....	....
104	Diarrhœa and enteritis (under 2 years)	1	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120A	Uræmia	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
137	Puerperal septicæmia	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	ALBERNI DIVISION—PRINCE RUPERT—*Continued.*	M.	F.	M.	F.	M.	F.
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	2	..	....	....	....	....
151c	Hydrocephalus	1	..	....	....	....	....
153A	Still-born	7	7	....	....	....	....
153E	Hæmorrhagica neonatorum	1	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
157	Suicide by hanging or strangulation	....	....	....	....	....	....
159	Suicide by firearms	....	..	....	....	....	....
164	Poisoning by food	....	....	....	....	....	....
166	Conflagration	....	....	1	....	....	....
169	Accidental drowning	..	....	....	..	1	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
171	Traumatism by cutting or piercing instruments	....	....	....	....	....	....
171A	Traumatism by falling tree	....	....	....	....	....	....
172	Traumatism by fall	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
186A	Gasolene-tank explosion, asphyxiation	....	....	....	....	....	....
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	ALBERNI DIVISION—QUATSINO.						
	I.—GENERAL DISEASES.						
50A	Diabetes mellitus	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	1	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	2	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
174	Traumatism by machines	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		3	....	....	....	....	....
	ALBERNI DIVISION—STEWART.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	1	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
171A	Traumatism by falling tree	....	....	....	....	....	....
173	Traumatism in mines and quarries	....	....	....	....	....	....
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	ALBERNI DIVISION—QUEEN CHARLOTTE.						
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77	Pericarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	ALBERNI DIVISION—QUEEN CHARLOTTE—*Continued.*	M.	F.	M.	F.	M.	F.
	XIII—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	...	....	....	....	....	....
171A	Traumatism by falling tree	....	....	....	....	....	....
182	Homicide by falling tree	....	....	...	....	...	....
		....	....	....	....	....	....
	ASHCROFT DIVISION—ASHCROFT.						
	I.—GENERAL DISEASES.						
45A	Cancer of bladder	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	...	....	....	..	....
79B	Valvular disease	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
105	Diarrhœa and enteritis (2 years and over)	...	....	....	....	....	1
110	Other diseases of the intestines	...	1	....	....	....	....
117A	Peritonitis-appendicitis	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
120	Bright's disease	....	....	....	....	....	....
123	Calculi of the urinary passages	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
152B	Asphyxia	...	1	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
165	Other acute poisonings	....	....	....	....	..	....
169	Accidental drowning	....	....	....	...	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
		....	2	...	....	....	1
	ASHCROFT DIVISION—BARKERVILLE.						
	XI.—DISEASES OF EARLY INFANCY.						
152B	Asphyxia	1	....	....	....	....	....
		1	....	....	....	....	....
	ASHCROFT DIVISION—FORT GEORGE.						
	1.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
39B	Cancer of jaw	....	....	....	....	....	....
56	Alcoholism, acute	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
78	Acute endocarditis	...	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	1	....	....	....	....	....
92A	Lobar	....	....	....	....	....	....
92D	Pneumonia following influenza	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
108	Appendicitis and typhlitis	....	....	....	....	....	....
111	Acute yellow atrophy of the liver	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	ASHCROFT DIVISION—FORT GEORGE—*Continued.*	M.	F.	M.	F.	M.	F.
	VII.—THE PUERPERAL STATE.						
137	Puerperal septicæmia	....	....	....	....	....	....
137c	Induced abortion	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	1	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151b	Non-assimilation of food	....	1	....	....	....	....
152a	Atelectasis	....	1	....	....	....	....
153a	Still-born	1	....	....	....	....	....
153b	Premature	1	1	....	....	....	....
153e	Hæmorrhagica neonatorum	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
157	Suicide by hanging or strangulation	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
184	Homicide by other means	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		5	3	....	....	....	....
	ASHCROFT DIVISION—TETE JAUNE CACHE.						
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	1	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	1
	XI.—DISEASES OF EARLY INFANCY.						
153a	Still-born	1	....	....	....	....	....
153b	Premature	....	1	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
		1	2	....	....	....	1
	ASHCROFT DIVISION—CLINTON.						
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
135	Puerperal hæmorrhage	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153a	Still-born	1	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	1
		1	....	....	....	....	1

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	ASHCROFT DIVISION—LILLOOET.	M.	F.	M.	F.	M.	F.
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79E	Mitral regurgitation	....	.	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
		....	1	....	....	....	....
	ASHCROFT DIVISION—QUESNEL.						
	I.—GENERAL DISEASES.						
10	Influenza	....	....	....	....	.	....
30A	Tubercular peritonitis	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61B	Cerebrospinal meningitis	....	....	....	....	....	1
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79	Organic diseases of the heart	....	....	....	....	....	....
79C	Aortic insufficiency	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
125	Other diseases of the urethra, urinary abscess, etc	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153B	Premature	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
		....	1	....	....	....	1
	ASHCROFT DIVISION—150-MILE HOUSE.						
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79B	Valvular disease	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151A	Accident of labour	1	....	....	....	....	....
153B	Premature	....	1	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
164	Poisoning by food	....	....	..	....	....	....
		1	1	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	ASHCROFT DIVISION—YALE.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
10	Influenza	1	....	....	....	....	1
28	Tuberculosis of the lungs	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
56	Alcoholism, acute	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
96	Asthma	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
		2	....	....	....	....	1
	FAIRVIEW DIVISION—FAIRVIEW.						
	I.—GENERAL DISEASES.						
9	Diphtheria	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
45	Cancer and other malignant tumours of organs not specified	....	....	....	....	....	....
45D	Cancer of kidney	....	....	....	....	....	....
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
50A	Diabetes mellitus	....	....	....	....	....	....
54A	Anæmia, pernicious	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
79G	Mitral stenosis	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
83D	Rupture of blood vessel	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
87	Diseases of the larynx	....	....	1	....	....	....
91	Bronchopneumonia	1	....	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
98	Other diseases of the respiratory system (tuberculosis excepted)	1	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	....	....	....	1	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	....	1
110	Other diseases of the intestines	....	1	....	....	....	....
117B	Peritonitis, gastric ulcer perforated	....	....	....	....	....	....
118	Other diseases of digestive system (cancer and tuberculosis excepted)	1	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	FAIRVIEW DIVISION—FAIRVIEW—*Continued.*	M.	F.	M.	F.	M.	F.
	IX.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION.						
146	Diseases of the bones (tuberculosis excepted)	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	...	....	....	....	....
151B	Non-assimilation of food	1	....	....	....	....	....
153A	Still-born	....	2	....	....	....	....
153B	Premature	2	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
165	Other acute poisonings	....	....	....	....	....	....
167	Burns (conflagration excepted)	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
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	FAIRVIEW DIVISION—GREENWOOD.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
71	Convulsions of infants (teething)	....	1	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	...	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	1	....	...	....	....
92A	Lobar	....	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
185	Fractures (causes not specified)	....	....	....	....	....	....
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	FAIRVIEW DIVISION—GRAND FORKS.						
	I.—GENERAL DISEASES.						
8	Whooping-cough	....	1	....	....	....	....
14	Dysentery	....	....	....	....	....	....
20	Purulent infection and septicæmia	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79B	Valvular disease	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	....	....	....	....	....	....
97	Pulmonary emphysema	....	....	....	....	....	....
98	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	1	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
117A	Peritonitis-appendicitis	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	FAIRVIEW DIVISION—GRAND FORKS—*Continued.*	M.	F.	M.	F.	M.	F.
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
120	Bright's disease	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
135	Puerperal hæmorrhage	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
53B	Premature	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
167	Burns (conflagration excepted) (scalds)	....	....	1	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
170	Traumatism by firearms	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
176	Injuries by animals	....	....	....	....	....	....
		1	2	1	....	..	....
	FAIRVIEW DIVISION—KAMLOOPS.						
	I.—GENERAL DISEASES.						
9	Diphtheria	....	....	....	....	1	....
14	Dysentery	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
30	Tubercular meningitis	....	....	....	....	....	....
32A	Tuberculosis of spine	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
39C	Cancer of œsophagus	....	....	....	....	....	....
39D	Cancer of larynx	....	....	....	....	....	....
39F	Cancer of throat	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
44A	Cancer of lung	....	....	....	....	....	....
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
50A	Diabetes mellitus	....	....	....	....	....	....
54A	Anæmia, pernicious	....	....	....	....	....	....
56A	Alcoholism, chronic	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
60A	Encephalitis lethargica	....	....	....	....	....	....
61	Meningitis	....	....	1	....	....	....
63B	Paralysis agitans	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
70	Convulsions (non-puerperal)	....	....	....	....	....	1
71	Convulsions of infants	1	1	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
80	Angina pectoris	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	....	....	....	1	....
92	Pneumonia	....	..	....	1	....	....
92A	Lobar	....	....	....	....	....	....
92D	Pneumonia following influenza	....	....	....	....	....	....
96	Asthma	....	....	....	....	....	....
98A	Œdema of lungs	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	FAIRVIEW DIVISION—KAMLOOPS—*Continued.*	M.	F.	M.	F.	M.	F.
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
102	Ulcer of the stomach	....	....	....	....	....	....
103A	Gastritis	....	....	....	....	....	....
104	Diarrhœa and enteritis (under 2 years)	....	1	....	....	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	1	....
108	Appendicitis and typhlitis	....	....	....	....	1	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
110A	Enterocolitis	....	1	....	....	....	....
117	Simple peritonitis (non-puerperal)	....	....	....	....	....	....
117A	Peritonitis-appendicitis	....	....	....	....	....	....
118	Other diseases of the digestive system (cancer and tuberculosis excepted)	....	....	1	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	....	....	....	....
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
126	Diseases of the prostate	....	....	....	....	....	....
130	Diseases of the uterus	....	....	....	....	....	....
133A	Cholecystitis	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
135	Puerperal hæmorrhage	....	....	....	....	....	....
137D	Eclampsia	....	....	....	....	....	....
	VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.						
142	Gangrene	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	1	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	....	....	....	....	....
151A	Accident of labour	1	....	....	....	....	....
151B	Non-assimilation of food	1	1	....	....	....	....
152	Other diseases peculiar to early infancy	....	1	....	....	....	....
152B	Asphyxia	....	1	....	....	....	....
153A	Still-born	2	3	....	....	....	....
153B	Premature	5	4	....	....	....	....
153C	Umbilical hæmorrhage	....	1	....	....	....	....
153E	Hæmorrhagica neonatorum	1	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
157	Suicide by hanging or strangulation	....	....	....	....	....	....
159	Suicide by firearms	....	....	....	....	....	....
165	Other acute poisonings	....	....	....	....	1	....
166	Conflagration (forest fire)	....	....	....	....	....	....
167	Burns (conflagration excepted)	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	1	....
171A	Traumatism by falling tree	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
175A	Traumatism not specified	....	....	....	....	....	....
181	Electricity (lightning excepted)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		13	15	2	1	6	1
	FAIRVIEW DIVISION—NICOLA.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
8	Whooping-cough	....	1	....	....	....	....
9	Diphtheria	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
29	Acute miliary tuberculosis	....	....	....	....	....	....
30	Tubercular meningitis	....	....	....	....	....	1
50	Diabetes	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	FAIRVIEW DIVISION—NICOLA—*Continued.*	M.	F.	M.	F.	M.	F.
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79E	Mitral regurgitation	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	1	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
	VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.						
145A	Acute pemphigus	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	2	....	...	....	....	....
152B	Atelectasis	1	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
166	Conflagration	....	....	....	....	....	....
173	Traumatism in mines and quarries	....	....	....	....	....	....
175	Traumatism by other crushing (snow-slide)	....	....	....	....	....	....
		3	2	....	....	....	1
	FAIRVIEW DIVISION—PRINCETON.						
	I.—GENERAL DISEASES.						
8	Whooping-cough	....	....	....	...	....	1
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79	Organic diseases of the heart	....	....	....	....	....	....
79C	Aortic insufficiency	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
87A	Œdema of the glottis	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	1	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120A	Uræmia	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
136	Other accidents of labour	....	...	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	...	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
165	Other acute poisonings	....	....	....	....	....	....
173	Traumatism in mines and quarries	....	....	....	...	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
184	Homicide by other means	....	....	....	....	....	....
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JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	FAIRVIEW DIVISION—VERNON.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
8	Whooping-cough	....	1	....	....	....	....
18	Erysipelas	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
30	Tubercular meningitis	....	....	....	....	....	....
36	Rickets	....	....	1	....	....	....
39	Cancer and other malignant tumours of the buccal cavity	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
45	Cancer and other malignant tumours of organs not specified	....	....	....	....	....	....
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
51A	Goitre not specified	....	....	....	....	....	....
53	Leuchæmia	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	1	1	....	....	....	....
63	Other diseases of the spinal cord	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
71	Convulsions of infants	....	1	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
78A	Endocarditis following rheumatism	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
79E	Mitral regurgitation	....	....	....	....	....	....
81B	Aneurism	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
85	Hæmorrhage following operation, tonsils	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	....	....	....
91	Bronchopneumonia	2	2	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
92A	Lobar	....	....	....	1	....	....
92D	Pneumonia following influenza	....	....	....	....	....	....
94	Pulmonary congestion, pulmonary apoplexy	....	....	....	....	....	....
96	Asthma	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103	Other diseases of the stomach (cancer excepted)	....	....	....	....	....	....
103A	Gastritis	1	....	....	....	....	....
104	Diarrhœa and enteritis (under 2 years)	1	1	....	....	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
110	Other diseases of the intestines	....	....	1	....	....	....
117	Simple peritonitis (non-puerperal)	....	....	....	....	....	....
118	Other diseases of the digestive system (cancer and tuberculosis excepted)	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	1
120A	Uræmia	....	....	....	....	....	....
122	Other diseases of the kidneys and annexa	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	5	....	....	....	....	....
151A	Accident of labour	1	....	....	....	....	....
151B	Non-assimilation of food	2	....	....	....	....	....
152	Other diseases peculiar to early infancy	1	....	....	....	....	....
153A	Still-born	3	1	....	....	....	....
153B	Premature	4	2	....	....	....	....
153D	Injury by forceps at birth	1	....	....	....	....	....
153E	Hæmorrhagica neonatorum	2	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	FAIRVIEW DIVISION—VERNON—*Continued.*	M.	F.	M.	F.	M.	F.
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
155	Suicide by poison	....	....	....	....	....	....
157	Suicide by hanging or strangulation	....	....	....	....	....	....
160	Suicide by cutting or piercing instruments	....	....	....	....	....	....
166	Conflagration	....	....	....	....	....	....
167	Burns (conflagration excepted)	....	1	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
172	Traumatism by fall	....	....	....	....	....	....
174	Traumatism by machines	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
176	Injuries by animals	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
187A	Dropsy	....	....	....	....	....	....
		24	10	2	1	....	1
	VANCOUVER DIVISION—VANCOUVER CITY.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
6	Measles	....	1	....	....	1	....
7	Scarlet fever	....	....	....	....	....	1
8	Whooping-cough	1	....	....	....	....	....
9	Diphtheria	1	....	....	....	3	1
9A	Croup	....	....	....	....	....	....
10	Influenza	....	....	....	....	....	....
14	Dysentery	....	....	....	....	....	....
18	Erysipelas	....	....	....	....	....	....
20	Purulent infection and septicæmia	1	1	....	....	....	....
24	Tetanus, superinduced by wound of foot	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
28A	Tubercular laryngitis	....	....	....	....	....	....
29	Acute miliary tuberculosis	....	....	....	....	....	....
30	Tubercular meningitis	2	5	....	....	2	1
30A	Tubercular peritonitis	....	..	....	2	....	....
32A	Tuberculosis of spine	....	....	....	....	....	....
33A	Tuberculosis of joint	....	....	....	....	....	....
35	Disseminated tuberculosis, lungs, hip, kidney	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	1	....
36	Rickets	....	....	1	....	....	....
37	Syphilis	....	....	....	....	....	....
37A	Syphilis, congenital	1	1	....	....	....	....
39	Cancer and other malignant tumours of the buccal cavity	....	....	....	....	....	....
39A	Cancer of face	....	....	....	....	....	....
39C	Cancer of œsophagus	....	....	....	....	....	....
39D	Cancer of larynx	....	....	....	....	....	....
39E	Cancer of pancreas	....	....	....	....	....	....
39F	Cancer of throat	....	....	....	....	....	....
39G	Cancer of scalp and brain * ; neck †	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
43	Cancer and other malignant tumours of the breast	....	....	....	....	....	....
44	Cancer and other malignant tumours of the skin	....	....	....	....	....	....
44A	Cancer of lung	....	....	....	....	....	....
44B	Cancer of prostate	....	....	....	....	....	....
45	Cancer and other malignant tumours of organs not specified	....	....	....	....	....	....
45A	Cancer of bladder	....	....	....	....	....	....
45C	Cancer of tongue	....	....	....	....	....	....
45D	Cancer of kidney	....	....	....	....	....	....
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
47	Acute articular rheumatism and gout	....	....	....	....	....	....
48	Chronic rheumatism	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
50A	Diabetes mellitus	....	....	....	....	....	....
51	Exophthalmic goitre	....	....	....	....	....	....
51A	Goitre not specified	....	....	....	....	....	....
53	Leuchæmia	....	....	....	....	....	....
54A	Anæmia, pernicious	....	....	1	....	....	....
55A	Purpura hæmorrhagica	1	....	1	....	....	....
56	Alcoholism, acute	....	....	....	....	....	....
56A	Alcoholism, chronic	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VANCOUVER DIVISION—VANCOUVER CITY—*Continued.*	M.	F.	M.	F.	M.	F.
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
60	Encephalitis	1	....	....	....	....	....
60A	Encephalitis lethargica	....	....	....	....	....	....
61	Meningitis	4	1	2	1	....	....
61B	Cerebrospinal meningitis	1	....	1	....	....	....
63	Other diseases of the spinal chord	....	....	....	....	....	....
63B	Myelitis	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
65	Softening of the brain	....	....	....	....	....	....
66	Paralysis without specified cause	....	....	....	....	....	....
67	General paralysis of the insane	....	....	....	....	....	....
68	Other forms of mental alienation	....	....	....	....	....	....
69	Epilepsy	....	....	....	....	....	....
70A	Convulsions (seriasis)	....	....	....	....	....	....
71	Convulsions of infants	1	1	1	....	....	....
71A	Convulsions following whooping-cough *; teething†	....	....	....	2*	....	1†
76	Diseases of the ears	....	1	....	....	....	....
	III—DISEASES OF THE CIRCULATORY SYSTEM.						
77	Pericarditis	....	....	....	....	....	....
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	1	....
78A	Endocarditis following rheumatism	....	....	....	....	1	....
79	Organic diseases of the heart	....	....	....	....	....	....
79A	Cardiac paralysis	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
79C	Aortic insufficiency	....	....	....	....	....	....
79D	Fatty degeneration of the heart	....	....	....	....	....	....
79E	Mitral regurgitation	....	....	....	....	....	....
79G	Mitral stenosis	....	....	....	....	....	....
80	Angina pectoris	....	....	....	....	....	....
81B	Aneurism	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
83	Diseases of the veins	....	....	....	....	....	....
85	Hæmorrhage (tonsil operation, artery cut accidentally*)	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
87	Diseases of the larynx	....	....	....	....	....	....
88	Diseases of the thyroid body	....	....	....	....	....	....
89	Acute bronchitis	2	1	....	....	....	....
90	Chronic bronchitis	....	....	....	....	....	....
90A	Capillary bronchitis following influenza	1	....	....	....	....	....
91	Bronchopneumonia	10	4	2	....	1	1
92	Pneumonia	6	3	....	1	....	1
92A	Lobar	3	1	2	1	....	....
92B	Following operation	....	....	....	....	....	....
92D	Pneumonia following influenza	....	....	....	....	....	....
92E	Hypostatic pneumonia	....	....	....	....	....	....
93	Pleurisy	....	1	....	....	....	....
94	Pulmonary congestion, pulmonary apoplexy	1	....	....	....	....	....
95	Gangrene of the lung	....	....	....	....	....	....
96	Asthma	....	....	....	....	....	....
97	Pulmonary emphysema	....	....	....	....	....	....
98	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....
98A	Œdema of lungs	....	....	....	....	....	....
98B	Abscess of lungs	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
100	Diseases of the pharynx	....	1	....	....	1	....
102	Ulcer of the stomach	....	....	....	....	....	....
103	Other diseases of the stomach (cancer excepted)	....	....	....	....	....	....
103A	Gastritis	....	....	....	....	....	....
104	Diarrhœa and enteritis (under 2 years)	6	7	2	....	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	....	1
108	Appendicitis and typhlitis	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	1	....	....	....	....
110	Other diseases of the intestines	1	....	....	....	....	....
110A	Entercolitis	....	....	....	1	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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1	....	3	....	1	1	3	1	4	..	2	2	4	....	2	2	....	1	....	....	....	....	25	12	37
1	....	2	....	4	....	5	2	4	2	5	1	....	2	4	2	1	....	....	....	....	....	35	11	46
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VANCOUVER DIVISION—VANCOUVER CITY—*Continued.*	M.	F.	M.	F.	M.	F.
	V.—DISEASES OF THE DIGESTIVE SYSTEM.—*Continued.*						
112	Hydatid tumour of the liver	....	....	....	....	....	....
113	Cirrhosis of the liver	....	....	....	....	....	....
114	Biliary calculi	....	....	....	....	....	....
115	Other diseases of the liver	....	....	....	....	....	....
116	Diseases of the spleen	....	....	....	....	....	....
117	Simple peritonitis (non-puerperal)	....	1	....	....	....	....
117A	Peritonitis-appendicitis	....	....	....	....	....	....
117B	Peritonitis, gastric ulcer perforated	....	....	....	....	....	....
118	Other diseases of digestive system (cancer and tuberculosis excepted)	....	1	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
119	Acute nephritis	....	....	1	....	....	....
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
122	Other diseases of the kidneys and annexa	....	....	....	....	....	....
124	Diseases of the bladder	....	....	....	....	....	1
126	Diseases of the prostate	....	....	....	....	....	....
127	Non-venereal diseases of the male genital organs	....	....	....	....	....	....
129	Uterine tumour (non-cancerous)	....	....	....	....	....	....
130	Diseases of the uterus	....	....	....	....	....	....
131	Cysts and other tumours of the ovary	....	....	....	....	....	....
132	Salpingitis and other diseases of the female genital organs	....	....	....	....	....	....
133A	Cholecystitis	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
134	Accidents of pregnancy	....	....	....	....	....	....
135	Puerperal hæmorrhage	....	....	....	....	....	....
137	Puerperal septicæmia	....	....	....	....	....	....
137B	Uræmia of pregnancy	....	....	....	....	....	....
137C	Induced abortion	....	....	....	....	....	....
137D	Eclampsia	....	....	....	....	....	....
138	Puerperal albuminuria and convulsions	....	....	....	....	....	....
140	Following childbirth (not otherwise defined)	....	....	....	....	....	....
141	Puerperal diseases of the breast	....	....	....	....	....	....
141A	Placenta prævia	....	....	....	....	....	....
141D	Septic thrombosis following childbirth	....	....	....	....	....	....
	VIII.—DISEASES OF THE SKIN AND OF CELLULAR TISSUE.						
142	Gangrene	....	....	....	....	....	....
142A	Gangrene, senile	....	....	....	....	....	....
145A	Cellulitis of neck	....	....	....	....	....	....
145B	Pustula eczema	....	1	....	....	....	....
145C	Streptoccal cellular face	....	....	....	....	....	....
145D	Pemphigus	....	1	....	....	....	....
	IX.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION.						
146	Diseases of the bones (tuberculosis excepted)	....	....	....	....	....	....
147	Diseases of the joints (tuberculosis and rheumatism excepted)	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	3	6	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	14	5	....	....	....	....
151A	Accident of labour	2	2	....	....	....	....
151B	Non-assimilation of food	7	2	....	....	....	....
151C	Hydrocephalus	....	....	....	....	....	....
152	Other diseases peculiar to early infancy	1	....	....	....	....	....
152A	Atelectasis	2	4	....	....	....	....
152B	Asphyxia	2	1	....	....	....	....
153A	Still-born	89	62	....	....	....	....
153B	Premature	37	28	....	....	....	....
153D	Injury by forceps at birth	4	1	....	....	....	....
153E	Hæmorrhagica neonatorum	4	4	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VANCOUVER DIVISION—VANCOUVER CITY—*Continued.*	M.	F.	M.	F.	M.	F.
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
155	Suicide by poison	....	....	....	....	....	....
156	Suicide by asphyxia	....	....	....	....	....	....
157	Suicide by hanging or strangulation	....	....	....	....	....	....
159	Suicide by firearms	....	....	....	....	....	....
160	Suicide by cutting or piercing instruments	....	....	....	....	....	....
161	Suicide by jumping from a high place	....	....	....	....	....	....
165	Other acute poisonings	....	....	....	....	1	....
166	Conflagration	....	....	....	....	....	....
167	Burns (conflagration excepted)	....	....	....	....	....	....
168	Absorption of deleterious gases (conflagration excepted)	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
170	Traumatism by firearms	....	....	....	....	....	....
172	Traumatism by fall	....	....	....	....	....	....
174	Traumatism by machines	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	2	....
182	Homicide by firearms	....	....	....	....	....	....
181A	Accidentally smothered in bed	....	1	....	....	....	....
183	Homicide by cutting or piercing instruments	....	....	....	....	....	....
184	Homicide by other means	....	....	....	....	....	....
185	Fractures (causes not specified)	....	....	....	....	....	....
186A	Scalds	1	....	....	....	....	....
186B	Asphyxia by fuel gas	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
187A	Dropsy	....	1	....	....	....	....
188	Sudden death	....	....	....	....	....	....
189	Cause of death not specified or ill-defined	....	1	....	....	....	....
		210	152	14	8	14	8
	VANCOUVER DIVISION—NORTH VANCOUVER CITY.						
	I.—GENERAL DISEASES.						
9	Diphtheria	....	....	....	....	1	1
20	Purulent infection and septicæmia	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
34C	Tuberculosis of intestines	....	....	....	....	....	1
39F	Cancer of throat	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
44A	Cancer of lung	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	....	1	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
79D	Fatty degeneration of the heart	....	....	....	....	....	....
81B	Aneurism	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	1	....	....	....	....	....
92	Pneumonia	....	1	....	....	....	....
92A	Lobar	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
109	Hernia, intestinal obstruction	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VANCOUVER DIVISION—NORTH VANCOUVER CITY—*Continued.*	M.	F.	M.	F.	M.	F.
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
133A	Cholecystitis	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
135A	Puerperal peritonitis	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	....	1	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	2	6	....	....	....	....
153B	Premature	4	1	....	....	....	....
153E	Hæmorrhagica neonatorum	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
172	Traumatism by fall	....	....	....	....	....	....
173A	Traumatism by railway-construction	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
187A	Dropsy	....	....	....	....	....	....
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		7	11	....	....	1	2
	VANCOUVER DIVISION—NORTH VANCOUVER DISTRICT.						
	I.—GENERAL DISEASES.						
8	Whooping-cough	1	1	....	....	....	....
30	Tubercular meningitis	....	....	....	....	1	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
71	Convulsions of infants	1	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	....	....	1	....	....
92	Pneumonia	1	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	....	1	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
171	Traumatism by cutting or piercing instruments	....	....	....	....	....	....
		3	3	....	1	1	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VANCOUVER DIVISION—POINT GREY.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
6	Measles	1	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
30	Tubercular meningitis	....	....	....	....	....	....
37	Syphilis	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
43	Cancer and other malignant tumours of the breast	....	....	....	....	....	....
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
54A	Anæmia, pernicious	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	1	....	....	....	....
66	Paralysis without specified cause	....	....	....	....	....	....
71	Convulsions of infants (teething)	....	....	....	....	....	1
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77	Pericarditis	....	....	....	....	....	....
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
79C	Aortic insufficiency	....	....	....	....	....	....
79D	Fatty degeneration of the heart	....	....	....	....	....	....
79E	Mitral regurgitation	....	....	....	....	....	....
80	Angina pectoris	....	....	....	....	....	....
81A	Atheroma	....	....	....	....	....	....
81B	Aneurism	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	1	....	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
98A	Œdema of lungs	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103A	Gastritis	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
122	Other diseases of the kidneys and annexa	....	....	....	....	....	....
	VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.						
142A	Gangrene, senile	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151A	Accident of labour	1	....	....	....	....	....
153	Lack of care	....	....	....	1	....	....
153A	Still-born	1	....	....	....	....	....
153B	Premature	2	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
175A	Traumatism not specified	....	....	....	....	....	....
		6	1	....	1	....	1
	VANCOUVER DIVISION—RICHMOND.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	1	....	....	....	....
28A	Tubercular laryngitis	....	1	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
54A	Anæmia, pernicious	1	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VANCOUVER DIVISION—RICHMOND—*Continued.*	M.	F.	M.	F.	M.	F.
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77	Pericarditis	....	....	....	....	....	....
77A	Myocarditis	....	....	....	....	....	....
80	Angina pectoris	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	2	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
99	Diseases of the mouth and annexa	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
110A	Enterocolitis	....	....	....	....	....	1
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	...	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
163	Other suicides	....	....	....	....	....	....
164	Poisoning by food	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
		3	2	....	....	....	1
	VANCOUVER DIVISION—SOUTH VANCOUVER.						
	I.—GENERAL DISEASES.						
6	Measles	1	....	....	....	....	....
7	Scarlet fever	1	....	....	....	1	1
8	Whooping-cough	....	1	....	....	....	....
10	Influenza	....	....	....	....	....	....
20	Purulent infection and septicæmia	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
39F	Cancer of throat	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
42	Cancer and other malignant tumours of the female genital organs	....	....	....	....	....	....
50A	Diabetes mellitus	....	....	....	....	....	....
51A	Goitre not specified	....	....	....	....	....	....
54A	Anæmia, pernicious	....	....	....	....	....	....
56	Alcoholism, acute	....	....	....	....	....	....
56A	Alcoholism, chronic	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
69	Epilepsy	....	....	....	....	....	....
71	Convulsions of infants	2	1	1	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77	Pericarditis	....	....	....	....	....	....
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
78A	Endocarditis following rheumatism	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
79C	Mitral stenosis	....	....	....	....	....	....
80	Angina pectoris	....	....	....	....	....	....
81A	Atheroma	....	....	....	....	....	....
81C	Arteriosclerosis	....	....	....	....	....	....
82	Embolism and thrombosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	1	....	....	...	....	....
90A	Capillary bronchitis	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VANCOUVER DIVISION—SOUTH VANCOUVER—*Continued.*	M.	F.	M.	F.	M.	F.
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.—*Continued.*						
91	Bronchopneumonia	1	....	....	....	....	....
92	Pneumonia	....	....	....	....	....	....
92A	Lobar	1	....	....	....	....	....
92F	Pleuropneumonia	....	....	....	....	....	....
93	Pleurisy	....	....	....	....	....	....
96	Asthma	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103	Other diseases of the stomach (cancer excepted)	....	....	....	..	....	....
104	Diarrhœa and enteritis (under 2 years)	1	....	....	....	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	....	....
109	Hernia, intestinal obstruction	....	....	....	....	....	....
110	Other diseases of the intestines	1	....	....	....	....	....
110A	Enterocolitis	....	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
120A	Uræmia	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
135	Puerperal hæmorrhage	....	....	....	....	....	....
	X.—MALFORMATIONS.						
150	Congenital malformation (still-births not included)	....	1	....	..	....	....
	XI.—DISEASES OF EARLY INFANCY.						
151	Congenital debility, icterus, and sclerema	1	1	....	....	....	....
152B	Asphyxia	1	....	....	....	....	....
153	Lack of care	....	1	....	....	....	....
153A	Still-born	10	6	....	....	....	....
153B	Premature	3	1	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
155	Suicide by poison	....	....	....	....	....	....
157	Suicide by hanging or strangulation	....	....	....	....	....	....
167	Burns (conflagration excepted) (scalds)	....	....	....	....	....	1
169	Accidental drowning	....	....	....	....	1	....
172	Traumatism by fall	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
		24	12	1	....	2	2
	VANCOUVER DIVISION—OUTSIDE.						
	I.—GENERAL DISEASES.						
30	Tubercular meningitis	....	1	....	....	....	....
36	Rickets	....	....	1	....	....	....
48	Chronic rheumatism	....	....	....	....	....	....
50	Diabetes	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
63B	Paralysis agitans	....	....	....	....	....	....
64	Cerebral hæmorrhage, apoplexy	....	....	....	....	....	....
71	Convulsions of infants (bottle-fed baby)	1	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
79	Organic diseases of the heart	....	....	....	....	....	....
79B	Valvular disease	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	1	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	1	....	....	....	....	....

JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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CAUSES OF DEATH, JULY, 1920, TO

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	VANCOUVER DIVISION—OUTSIDE—*Continued.*	M.	F.	M.	F.	M.	F.
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
160	Suicide by cutting or piercing instruments	....	....	....	....	....	....
167	Burns (conflagration excepted)	....	....	....	....	....	....
169	Accidental drowning	....	....	....	....	....	....
169A	Traumatism in logging camp and sawmill	....	....	....	....	....	....
		2	2	1	....	..	..
	VANCOUVER DIVISION—WEST VANCOUVER.						
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103B	Ileocolitis	1	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
120	Bright's disease	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	....	1	....	....	....	....
153B	Premature	2	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
		3	1	....	....	....	....

RETURNS OF DEATHS OF INDIANS BY AGE

	BABINE AGENCY.						
	I.—GENERAL DISEASES.						
1	Typhoid fever	....	....	....	....	....	....
10	Influenza	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
37	Syphilis	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
79	Organic diseases of the heart	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	1	....	....	....	....	....
		1	....	....	....	....	....
	BELLA COOLA AGENCY.						
	I.—GENERAL DISEASES.						
6	Measles	....	2	1	....	1	1
28	Tuberculosis of the lungs	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	....	....	....	....	1
	VII.—THE PUERPERAL STATE.						
137	Puerperal septicæmia	....	....	....	....	....	....

JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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NCIES, JULY, 1920, TO JUNE, 1921 (INCLUSIVE).

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RETURNS OF DEATHS OF INDIANS BY AGENCIES,

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	BELLA COOLA AGENCY—*Continued.*	M.	F.	M.	F.	M.	F.
	XI.—DISEASES OF EARLY INFANCY.						
152	Other diseases peculiar to early infancy	....	....	....	1	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	1	2	....	....	....	....
		1	4	1	1	1	2
	COWICHAN AGENCY.						
	I.—GENERAL DISEASES.						
9A	Croup	....	1	....	....	....	....
10	Influenza	....	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	2	....
30A	Tubercular peritonitis	....	....	....	....	....	....
34B	Tuberculosis of bowels	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
66	Paralysis without specified cause	1	....	1	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
78	Acute endocarditis	....	....	....	....	....	....
79D	Fatty degeneration of the heart	....	....	....	..	....	....
85	Hæmorrhage	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	1	....	....	....	....	....
91	Bronchopneumonia	....	1	1	....	....	....
92	Pneumonia	....	1	....	....	....	1
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	1	....	....	....	....	....
117	Simple peritonitis (non-puerperal)	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
134	Accidents of pregnancy	....	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	2	....	....
		3	3	2	2	2	1
	KAMLOOPS AGENCY.						
	I.—GENERAL DISEASES.						
5	Small-pox	....	....	....	....	....	....
28	Influenza	1	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
85	Hæmorrhage	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	....	....	....	....	1	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	2	1	....	2	....	1
		3	1	....	2	1	1

JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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....	2	2	1	2	1	....	1	1	1	2	2	....	....	....	1	....	....	....	....	1	....	12	13	25

RETURNS OF DEATHS OF INDIANS BY AGENCIES,

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	KOOTENAY AGENCY.	M.	F.	M.	F.	M.	F.
	I.—GENERAL DISEASES.						
6	Measles	....	....	....	....	1	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	....	....	1	....	....	....
92	Pneumonia	3	1	....	1	....	2
98	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
167	Burns (conflagration excepted)	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
176	Injuries by animals	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	1	....	....
		3	1	1	2	1	2
	KWAWKEWLTH AGENCY.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
40	Cancer and other malignant tumours of the stomach, liver	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	1
		....	....	....	....	....	1
	LYTTON AGENCY.						
	I.—GENERAL DISEASES.						
6	Measles	....	....	....	....	....	....
8	Whooping-cough	2	1	....	1	....	1
10	Influenza	....	....	....	....	1	....
28	Tuberculosis of the lungs	....	....	....	....	....	1
34A	Fibroid phthisis	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
71	Convulsions of infants	....	....	1	....	....	....
74	Other diseases of the nervous system	....	....	1	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
81c	Arteriosclerosis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
102	Ulcer of the stomach	....	....	....	....	....	....

JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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RETURNS OF DEATHS OF INDIANS BY AGENCIES,

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	LYTTON AGENCY—*Continued.*	M.	F.	M.	F.	M.	F.
	XII—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
159	Suicide by firearms	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
185	Fractures (causes not specified)	..	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	1	....	....	....	1	....
		3	1	2	1	2	2
	NASS RIVER AGENCY.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
		1	....	....	....	....	....
	NEW WESTMINSTER AGENCY.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
91	Bronchopneumonia	1	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
117A	Peritonitis-appendicitis	....	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
175	Traumatism by other crushing (railroad, landslides, vehicles, etc.)	....	....	....	....	....	....
		1	....	....	....	....	....
	OKANAGAN AGENCY.						
	I.—GENERAL DISEASES.						
6	Measles	....	1	....	....	1	....
28	Tuberculosis of the lungs	..	....	....	....	....	1
28A	Tubercular laryngitis	....	....	....	....	....	....
41	Cancer and other malignant tumours of the peritoneum, intestines, rectum	....	....	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
78	Acute endocarditis	....	....	....	....	....	....
84B	Hodgkin's disease	....	....	....	....	....	....

JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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RETURNS OF DEATHS OF INDIANS BY AGENCIES,

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	OKANAGAN AGENCY—*Continued.*	M.	F.	M.	F.	M.	F.
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	....	....	....	....	....	1
92D	Pneumonia following influenza	....	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enteritis (under 2 years)	....	1	....	....	....	....
105	Diarrhœa and enteritis (2 years and over)	....	....	....	....	1	....
117	Simple peritonitis (non-puerperal)	1	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
141D	Hæmorrhage following miscarriage	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	2	....	....	....	....	....
		3	2	....	....	2	2
	QUEEN CHARLOTTE AGENCY.						
	I.—GENERAL DISEASES.						
28	Tuberculosis of the lungs	....	....	....	....	....	....
34	Tuberculosis of other organs	....	....	....	....	....	....
37	Syphilis	1	....	1	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61B	Cerebrospinal meningitis	....	....	....	....	....	....
63	Other diseases of the spinal cord	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	1	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153B	Premature	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	1	....	....	....	....	....
		3	1	1	....	....	....
	SKEENA RIVER AGENCY.						
	I.—GENERAL DISEASES						
28	Tuberculosis of the lungs	....	....	....	....	....	....
30	Tubercular meningitis	....	....	....	....	1	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	....	....	....	....	....	....
71	Convulsions of infants	....	1	....	....	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
77A	Myocarditis	....	....	....	....	....	....
78	Acute endocarditis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	1	....	....	....	....
92	Pneumonia	....	....	....	....	....	....

JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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1		1		1			1							2						1		10	2	12
1			3							1												2	3	5
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RETURNS OF DEATHS OF INDIANS BY AGENCIES,

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	SKEENA RIVER AGENCY—*Continued.*	M.	F.	M.	F.	M.	F.
	XI.—DISEASES OF EARLY INFANCY.						
151B	Non-assimilation of food	1	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
165	Other acute poisonings	....	1	....	..	....	....
169	Accidental drowning	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	3	....	1	....	....
		1	6	....	1	1	....
	STIKINE AGENCY.						
	I.—GENERAL DISEASES.						
6	Measles	....	....	....	....	1	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
34B	Tuberculosis of bowels	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	....	....	....	....	....	....
91	Bronchopneumonia	....	....	....	....	....	....
92	Pneumonia	....	1	....	....	1	....
	XI.—DISEASES OF EARLY INFANCY.						
153B	Premature	2	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
175A	Traumatism not specified	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	....
		2	2	....	....	2	....
	STUART LAKE AGENCY.						
	I.—GENERAL DISEASES.						
14	Dysentery	1	....	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	1	....
35A	Tuberculosis not specified	....	....	....	....	1	2
46	Other tumours (tumours of the female genital organs excepted)	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61	Meningitis	....	....	....	....	....	....
66	Paralysis without specified cause	....	....	....	1	....	....
	III.—DISEASES OF THE CIRCULATORY SYSTEM.						
81B	Aneurism	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
92	Pneumonia	1	1	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
104	Diarrhœa and enterits (under 2 years)	1	....	....	....	....	....
	VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.						
145	Other diseases of the skin and annexa	....	....	....	....	....	....

JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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RETURNS OF DEATHS OF INDIANS BY AGENCIES,

Classification No.	CAUSE OF DEATH. (After the Bertillon Classification Causes of Death, Second International Decennial Revision, Paris, 1909.)	Under 1 year.		1 to 2 years.		2 to 5 years.	
	STUART LAKE AGENCY—*Continued.*	M.	F.	M.	F.	M.	F.
	XI.—DISEASES OF EARLY INFANCY.						
152	Other diseases peculiar to early infancy	1	....	....	....	....	....
152B	Asphyxia	1	....	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	1	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	....	....	....	....	....	3
		5	1	....	1	3	5
	WEST COAST AGENCY.						
	I.—GENERAL DISEASES.						
8	Whooping-cough	1	1	....	....	....	....
28	Tuberculosis of the lungs	....	....	....	....	....	....
32A	Tuberculosis of spine	....	....	....	....	....	....
34A	Fibroid phthisis	....	....	....	....	....	....
35A	Tuberculosis not specified	....	....	....	....	....	....
56	Alcoholism, acute	....	....	....	....	....	....
	II.—DISEASES OF NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.						
61B	Cerebrospinal meningitis	....	....	....	....	....	....
	IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
89	Acute bronchitis	2	....	....	....	....	....
90	Chronic bronchitis	1	....	....	....	....	....
	V.—DISEASES OF THE DIGESTIVE SYSTEM.						
103A	Gastritis	1	....	....	....	....	....
	VI.—NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA.						
132	Salpingitis and other diseases of the female genital organs	....	....	....	....	....	....
	VII.—THE PUERPERAL STATE.						
135	Puerperal hæmorrhage	....	....	....	....	....	....
	XI.—DISEASES OF EARLY INFANCY.						
153A	Still-born	....	1	....	....	....	....
	XII.—OLD AGE.						
154	Senility	....	....	....	....	....	....
	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.						
169	Accidental drowning	....	....	....	....	....	....
	XIV.—ILL-DEFINED DISEASES.						
189	Cause of death not specified or ill-defined	4	1	....	....	....	....
		9	3	....	....	....	....

JULY, 1920, TO JUNE, 1921 (INCLUSIVE)—*Continued.*

5 to 10 years.		10 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 to 70 years.		70 to 80 years.		80 to 90 years.		90 and upwards.		Age not given.		Total by Sexes.		Total Deaths.
M.	F.	M.	F.	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
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VICTORIA, B.C.
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

ESTIMATES

OF THE

REVENUE AND EXPENDITURE

OF

BRITISH COLUMBIA

FOR THE

FISCAL YEAR ENDING 31st MARCH

1923

(ASSENTED TO DECEMBER 3rd, 1921)

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

ESTIMATED REVENUE

FOR THE

FISCAL YEAR ENDING 31ST MARCH, 1923

Estimated for Fiscal Year 1921–22.	SERVICE.		Fiscal Year, 1922–23.
	CURRENT ACCOUNT.		
	DEPARTMENT OF AGRICULTURE:		
$ 28,000 00	Horticultural Inspection Fees and Licences	$ 22,000 00	
10,500 00	Seed-grain Advances Refunds	1,000 00	
2,500 00	Miscellaneous Receipts	7,000 00	
$ 41,000 00	Total, Department of Agriculture		$ 30,000 00
	DEPARTMENT OF THE ATTORNEY-GENERAL:		
$ 50,000 00	Court Fees and Fines	$ 75,000 00	
1,500 00	Dog Licences	1,500 00	
.....	"Fire Marshal Act"	18,000 00	
200,000 00	"Game Act"—Fees, Licences, etc.	200,000 00	
2,500,000 00	"Government Liquor Act"	2,500,000 00	
85,000 00	"Insurance Act"—Licences, Taxes, Fees, etc...	135,000 00	
75,000 00	Joint-stock Companies, etc.—Registration Fees..	85,000 00	
20,000 00	Keep of Prisoners—Reimbursement	30,000 00	
375,000 00	Land Registry Fees	410,000 00	
90,000 00	Law Stamps	90,000 00	
750,000 00	"Motor-vehicle Act"—Fees	1,125,000 00	
17,500 00	"Moving Pictures Act"—Fees	17,000 00	
20,000 00	Sheriffs' Fees	25,000 00	
25,000 00	Trade Licences	30,000 00	
30,000 00	Miscellaneous Receipts	20,000 00	
$ 4,239,000 00	Total, Department of the Attorney-General		4,761,500 00
	DEPARTMENT OF EDUCATION:		
$ 4,000 00	Examination Fees	$ 6,000 00	
2,500 00	Teachers' Examinations and Certificates	2,500 00	
	Technical School:		
	Rent $12,000 00		
	Grant from Dominion Government 54,000 00		
66,000 00		66,000 00	
1,500 00	Text-books sold	1,500 00	
$ 74,000 00	Total, Department of Education		76,000 00
	DEPARTMENT OF FINANCE:		
	Dominion of Canada:		
$ 29,151 06	Annual Interest	$ 29,151 00	
180,000 00	Annual Subsidy	180,000 00	
$ 209,151 06	*Carried forward*	$ 209,151 00	$ 4,867,500 00

Estimated for Fiscal Year 1921–22.	SERVICE.		Fiscal Year, 1922–23.
	CURRENT ACCOUNT—*Continued.*		
$ 209,151 06	*Brought forward*	$ 209,151 00	$ 4,867,500 00
	DEPARTMENT OF FINANCE—*Continued.*		
	Dominion of Canada—*Continued.*		
313,984 00	Annual Grant *per Capita*	313,984 00	
100,000 00	Annual Grant for Lands conveyed	100,000 00	
$ 623,135 06		$ 623,135 00	
.....	Additional *per Capita* Grant, 1921 Census—Estimated	150,000 00	
350,000 00	Amusements Tickets Tax	400,000 00	
220,000 00	Coal and Coke Tax	220,000 00	
2,000,000 00	Income Tax	3,000,000 00	
	Interest:		
19,080 07	"Dyking Assessments Adjustment Act"	19,080 00	
305,000 00	Sinking Fund Investments	395,000 00	
300,000 00	Miscellaneous	450,000 00	
	Land Taxes:		
1,050,000 00	Real Property	1,150,000 00	
975,000 00	Wild Land, Coal and Timber Lands	1,225,000 00	
135,000 00	Mineral Tax	120,000 00	
860,000 00	Personal Property Tax	150,000 00	
235,000 00	Poll Tax	100,000 00	
75,000 00	Probate Fees	75,000 00	
.....	Races Tax	250,000 00	
	Rents:		
51,200 00	B.C. House, London, England	51,200 00	
200 00	Miscellaneous Rents	200 00	
6,000 00	Revenue Service Refunds	7,500 00	
220,000 00	Rural District School Taxes	220,000 00	
700,000 00	Succession Duties	425,000 00	
50,000 00	Unworked Crown-granted Mineral Claims—Taxes	50,000 00	
200,000 00	Miscellaneous Receipts	650,000 00	
$ 8,374,615 13	Total, Department of Finance		9,731,115 00
	DEPARTMENT OF FISHERIES:		
$ 30,000 00	Fishing and Cannery Licences, etc.		25,000 00
	DEPARTMENT OF LABOUR:		
$ 35,000 00	Dominion of Canada, Subvention	$ 35,000 00	
.....	Elevator Inspection and Examination Fees, etc...	2,500 00	
$ 35,000 00	Total, Department of Labour		37,500 00
	DEPARTMENT OF LANDS:		
$ 20,000 00	Grazing Rentals, Leases, and Fees	$ 20,000 00	
100,000 00	Land Revenues—Sundry	100,000 00	
550,000 00	Land Sales	450,000 00	
11,000 00	Survey Fees and Sale of Maps	11,000 00	
65,000 00	Timber Leases	65,000 00	
1,350,000 00	Timber Licences	1,650,000 00	
$ 2,096,000 00	*Carried forward*	$2,296,000 00	$14,661,115 00

Estimated for Fiscal Year 1921–22.	SERVICE.		Fiscal Year, 1922–23.
	CURRENT ACCOUNT—*Continued.*		
$ 2,096,000 00	*Brought forward*	$2,296,000 00	$14,661,115 00
	DEPARTMENT OF LANDS—*Continued.*		
300,000 00	Timber Sales	300,000 00	
950,000 00	Timber Royalties	950,000 00	
60,000 00	Water Rentals and Recording Fees	60,000 00	
10,000 00	Miscellaneous Receipts	10,000 00	
$ 3,416,000 00	Total, Department of Lands		3,616,000 00
	LEGISLATION:		
$ 2,000 00	Private Bills Fees		2,000 00
	DEPARTMENT OF MINES:		
$ 1,000 00	Bureau of Mines	$ 1,000 00	
61,000 00	Free Miners' Certificates	61,000 00	
1,000 00	Miners' Examinations and Certificates	1,000 00	
100,000 00	Mining Receipts, General	100,000 00	
$ 163,000 00	Total, Department of Mines		163,000 00
	DEPARTMENT OF THE PROVINCIAL SECRETARY:		
$ 15,000 00	Colony Farm	$ 10,000 00	
14,480 00	Dominion Grant, Venereal Disease		
225,000 00	King's Printer	240,000 00	
14,000 00	Marriage Licences	20,000 00	
90,000 00	Mental Hospitals	80,000 00	
3,000 00	Notaries Public and Commissioners' Fees	3,500 00	
2,000 00	Provincial Home, Kamloops	1,200 00	
155,000 00	Tubercular Hospital and Farm, Tranquille	139,000 00	
3,000 00	Vital Statistics, etc.	1,500 00	
1,000 00	Miscellaneous Receipts	1,000 00	
$ 522,480 00	Total, Department of the Provincial Secretary		496,200 00
	DEPARTMENT OF PUBLIC WORKS:		
$ 32,000 00	Boiler Inspections and Examinations Fees	$ 35,000 00	
4,500 00	Electrical Energy Inspection	3,500 00	
18,000 00	Ferry Tolls	16,500 00	
7,500 00	Government Property sold	2,500 00	
4,000 00	Wharfage and Dock Dues	4,500 00	
500 00	Miscellaneous Receipts	500 00	
$ 66,500 00	Total, Department of Public Works		62,500 00
	DEPARTMENT OF RAILWAYS:		
$ 4,000 00	Inspection Fees	$ 4,000 00	
40,000 00	New Westminster Bridge Tolls	40,000 00	
3,000 00	Miscellaneous Receipts	1,000 00	
$ 47,000 00	Total, Department of Railways		45,000 00
$17,010,595 13	Total Estimated Revenue for fiscal year 1922–23		$19,045,815 00

ESTIMATED EXPENDITURE

FOR THE

FISCAL YEAR ENDING 31ST MARCH, 1923

SUMMARY

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.	Page.		Fiscal Year, 1922–23.
		CURRENT ACCOUNT.			
$ 2,829,633 08	1.	PUBLIC DEBT	9–10		$4,033,233 08
$ 129,170 00	2.	LEGISLATION	11		127,800 00
$ 15,180 00	3.	PREMIER'S OFFICE	11		15,180 00
		DEPARTMENT OF AGRICULTURE:			
$ 12,940 00	4.	Minister's Office	12	$ 13,190 00	
34,996 00	5.	General Office	12	38,176 00	
93,540 00	6-11.	Horticultural Branch	12–14	104,712 00	
73,462 00	12-16.	Live Stock Branch	14–15	67,472 00	
4,720 00	17.	Statistics	15–16	4,520 00	
16,270 00	18.	District Agriculturists, etc.	16	16,270 00	
3,200 00	19.	Workshop and Shipping Office	16	3,180 00	
149,150 00	20-44.	Miscellaneous Grants, etc.	16–17	132,150 00	
$ 388,278 00		Total, Department of Agriculture			$ 379,670 00
		DEPARTMENT OF THE ATTORNEY-GENERAL:			
$ 13,310 00	45.	Attorney-General's Office	17	$ 13,800 00	
26,940 00	45A.	General Office	17–18	25,610 00	
14,860 00	46.	Joint-stock Companies Branch	18	15,610 00	
11,150 00	47.	Insurance Branch	18	25,530 00	
7,140 00	48.	Municipal Branch	19	7,050 00	
15,522 00	49.	Censor of Moving Pictures	19	15,672 00	
6,580 00	...	"Prohibition Act"—Administration	19	.....	
29,806 00	50-52.	Sheriff's Offices	19–20	29,500 00	
2,740 00	53.	Official Guardian	20	2,740 00	
7,290 00	54.	Legal Offices Branch	21	6,210 00	
210,304 00	55-60.	Land Registry Offices	21–24	205,644 00	
83,349 00	61-68.	Supreme and County Courts	24–27	81,455 00	
400,601 00	69.	Provincial Police	27	396,927 00	
119,385 00	70-71.	County Gaols	27–28	143,400 00	
30,050 00	72.	Girls' Industrial School	28–29	31,830 00	
43,680 00	73.	"Infants Act" and "Mothers' Pensions Act"—Administration	29	45,600 00	
$ 1,022,707 00		*Carried forward*		$1,046,578 00	$4,555,883 08

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.	Page.		Fiscal Year, 1922–23.
		CURRENT ACCOUNT—*Continued.*			
$ 1,022,707 00		*Brought forward*		$1,046,578 00	$4,555,883 08
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
48,000 00	74.	"Motor-vehicle Act"—Administration	29	58,654 00	
190,000 00	75-86A.	Miscellaneous Votes	29–30	168,000 00	
400,000 00	86B.	"Mothers' Pensions Act"	30	500,000 00	
$ 1,660,707 00		Total, Department of the Attorney-General			1,773,232 00
		DEPARTMENT OF EDUCATION:			
$ 29,152 00	87.	General Office	30	$ 28,032 00	
94,880 00	88.	Free Text-book Branch	31	107,730 00	
29,280 00	89.	Agricultural Education	31	20,180 00	
96,270 00	90.	Industrial Education	31–32	102,990 00	
75,880 00	91.	Inspection of Schools	32	78,220 00	
82,315 00	92-93.	Normal Schools	32–34	80,730 00	
47,600 00	94.	School for the Deaf, Dumb, and Blind	34	45,700 00	
1,207,500 00	95-97.	*Per Capita* Grants	34	1,260,000 00	
560,000 00	98-99.	Teachers' Salaries	34	590,000 00	
400,000 00	100.	School Buildings	34	360,000 00	
50,350 00	101-106.	Miscellaneous Votes	35	78,000 00	
445,000 00	107.	University of British Columbia	35	445,000 00	
300,000 00	107A.	Rural District School Taxes	35	300,000 00	
$ 3,418,227 00		Total, Department of Education			3,496,582 00
		DEPARTMENT OF FINANCE:			
$ 14,320 00	108.	Minister's Office	35	$ 14,300 00	
37,796 00	109.	General Office	35–36	41,344 00	
14,830 00	110.	Inspection of Trust Companies, Probate and Succession Duties	36	13,000 00	
53,720 00	111.	Controlling and Audit Branch	36–37	53,000 00	
121,512 00	112.	Surveyor of Taxes	37–38	120,000 00	
6,320 00	113.	"Amusements Tax Act"—Operation	38	6,320 00	
34,872 00	114.	Bureau of Information	38	22,000 00	
79,300 00	115.	Agent-General's Office and B.C. House, London, Eng.	38–39	81,800 00	
538,363 99	116-153.	Government Agents and Assessors, etc.	39–52	502,040 00	
60,917 00	154-159.	Miscellaneous Votes	53	61,450 00	
$ 961,950 99		Total, Department of Finance			915,254 00
$ 18,090 00	160.	DEPARTMENT OF FISHERIES	53		18,090 00
$ 28,300 00	161.	DEPARTMENT OF INDUSTRIES	53		13,520 00
		Carried forward			$10,772,561 08

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.	Page.		Fiscal Year, 1922–23.
		CURRENT ACCOUNT—*Continued.*			
		Brought forward			$10,772,561 08
		DEPARTMENT OF LABOUR:			
$ 14,940 00	162.	General Office	54	$ 14,720 00	
8,930 00	163.	Minimum Wage Board	54	8,780 00	
72,870 00	164.	Employment Service	54–58	76,010 00	
8,928 00	165.	Factories Inspection	58	8,920 00	
$ 105,668 00		Total, Department of Labour			108,430 00
		DEPARTMENT OF LANDS:			
$ 13,942 00	166.	Minister's Office	58	$ 13,942 00	
34,220 00	167.	General Office (Salaries)	58–59	34,280 00	
43,316 00	168.	Lands Branch (Salaries)	59–60	42,626 00	
72,744 00	169.	Survey Branch (Salaries)	60–61	68,632 00	
88,092 00	170.	Water Rights Branch (Salaries)	61–62	87,852 00	
220,686 00	171.	Forest Branch (Salaries)	62–67	218,120 00	
25,000 00	172.	Temporary assistance	67	25,000 00	
212,200 00	173.	Expenses, General Office and Branches	67–68	200,000 00	
1,065,700 00	174-192.	Miscellaneous Votes	68	671,700 00	
$ 1,775,900 00		Total, Department of Lands			1,362,152 00
		DEPARTMENT OF MINES:			
$ 12,065 00	193.	Minister's Office	69	$ 12,065 00	
20,090 00	194.	General Office	69	18,090 00	
40,300 00	195.	Mines Inspection Branch	69	40,300 00	
16,530 00	196.	Bureau of Mines	70	16,530 00	
13,645 00	197.	Mine-rescue and Training Stations	70	13,645 00	
115,500 00	198-203.	Miscellaneous Votes	70	68,000 00	
89,374 38	203A-203B.	Statutory—Mines and Mineral Development	70	89,374 38	
$ 307,504 38		Total, Department of Mines			258,004 38
		DEPARTMENT OF THE PROVINCIAL SECRETARY:			
$ 11,060 00	204.	Minister's Office	71	$ 12,340 00	
15,550 00	205.	General Office	71	15,880 00	
90,610 00	206.	Provincial Board of Health	71–72	105,610 00	
19,570 00	207.	Provincial Library and Archives	72	19,480 00	
13,020 00	208.	"Public Libraries Act"	72	9,935 00	
10,668 00	209.	Provincial Museum	72–73	10,668 00	
730,546 00	210-213.	Mental Hospitals	73–75	711,266 00	
47,145 00	214.	Provincial Home, Kamloops	75–76	48,795 00	
355,000 00	215-216.	Tubercular Hospital and Farm, Tranquille	76–77	278,085 00	
100,000 00	217.	Industrial and Boys' Subnormal School	77	100,000 00	
$ 1,393,169 00		*Carried forward*		$1,312,059 00	$12,501,147 46

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.	Page.		Fiscal Year, 1922–23.
		CURRENT ACCOUNT—*Continued.*			
$ 1,393,169 00		*Brought forward*		$1,312,059 00	$12,501,147 46
		DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
478,250 00	218-223.	Grants to Hospitals and Charities..	77	493,250 00	
15,340 00	224.	Civil Service Commission	77–78	14,440 00	
74,500 00	225-226.	Grants *re* Civil Service	78	64,500 00	
217,411 48	227.	King's Printer	78–79	219,981 00	
219,000 00	228-238.	Miscellaneous Votes	79	229,000 00	
$ 2,397,670 48		Total, Department of the Provincial Secretary....			2,333,230 00
		DEPARTMENT OF PUBLIC WORKS:			
12,540 00	240.	Minister's Office	79	$ 12,540 00	
64,924 00	241.	Administration	79–80	59,684 00	
143,200 00	242.	Parliament Buildings and Grounds..	81–82	122,674 00	
22,820 00	243.	Government House and Grounds....	82	20,968 00	
66,040 00	244.	District Engineers	82	62,360 00	
75,610 00	245.	Steam-boiler Inspection	83	59,975 00	
8,590 00	246.	"Electrical Energy Inspection Act"	83	8,210 00	
2,241,100 00	247.	Roads, Streets, Bridges, and Wharves	84	2,301,494 00	
261,556 00	248.	Steamboats, Ferries, and Bridge-tenders	84	222,950 00	
$ 2,896,380 00		Total, Department of Public Works			2,870,855 00
		DEPARTMENT OF RAILWAYS:			
24,600 00	249.	General Office	84	$ 24,660 00	
50,000 00	250.	New Westminster Bridge	84	50,000 00	
$ 74,600 00		Total, Department of Railways			74,660 00
$17,007,258 93		Total, Current Account			$17,779,892 46
		CAPITAL ACCOUNT.			
$ 1,247,081 36	251.	Sinking Funds	85	$1,567,281 36	
773,884 00	252-253.	Pacific Great Eastern Railway Co...	85–86	1,273,884 00	
937,800 00	254-266.	Miscellaneous Votes	86	508,000 00	
$ 2,958,765 36		Total, Capital Account			3,349,165 36
$19,966,024 29		Total Estimated Expenditure for fiscal year 1922–23			$21,129,057 82

ESTIMATES OF EXPENDITURE

OF THE PROVINCE OF

BRITISH COLUMBIA

FOR THE

FISCAL YEAR ENDING 31ST MARCH, 1923

Estimates, Fiscal Year 1921–22.	No. of Vote.	SERVICE.	Fiscal Year, 1922–23.
	1.	PUBLIC DEBT.	
		INTEREST.	
$ 297,658 08		"Loan Acts, 1891, 1893, 1895, 1899, and 1902"—Interest @ 3% on amount of Inscribed Stock, viz., $9,921,936	$297,658 08
327,375 00		"Loan Act, 1914"—Interest @ 4½% on the amount of Inscribed Stock, viz., $7,275,000	327,375 00
140,850 00		"Loan Act, 1915"—Interest @ 4½% on Debentures of $3,130,000	140,850 00
90,000 00		"Loan Act, 1916"—Interest @ 4½% on Debentures of $2,000,000	90,000 00
322,500 00		"Loan Act, 1916" (Amendments, 1917, 1918, and 1919)—Interest @ 5% on Debentures of $6,450,000	322,500 00
.....		"Loan Act, 1916"—Interest @ 6% on Debentures of $2,245,000	134,700 00
55,000 00		"Loan Act, 1917"—Interest @ 5% on Debentures of $1,100,000 (Land Settlement Board)	55,000 00
.....		"Loan Act, 1917"—Interest @ 6% on Debentures of $755,000	45,300 00
165,000 00		"Loan Act, 1918"—Interest @ 5½% on Debentures of $3,000,000	165,000 00
.....		"Loan Act, 1918"—Interest @ 6% on Debentures of $1,000,000	60,000 00
.....		"Loan Act, 1919"—Interest @ 6% on Debentures of $3,500,000	210,000 00
60,000 00		"Loan Act, 1920"—Interest @ 6% on Debentures of $1,500,000	90,000 00
.....		"Loan Act, 1921"—Interest @ 6% on Debentures of $2,000,000	120,000 00
.....		"Department of Industries Act, 1919"—Interest @ 6% on Debentures of $1,000,000	60,000 00
.....		"Highway Loan Act, 1920"—Interest @ 6% on Debentures of $3,000,000	180,000 00
$1,458,383 08		*Carried forward*	$2,298,383 08

Estimates, Fiscal Year 1921–22.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
	1.	PUBLIC DEBT—*Continued.*		
		INTEREST—*Continued.*		
$1,458,383 08		*Brought forward*	$2,298,383 08	
240,000 00		"Pacific Great Eastern Construction Loan Act, 1920"—Interest @ 6% on Debentures of $4,000,000	240,000 00	
.....		"Pacific Great Eastern Construction Loan Act, 1921"—Interest @ 6% on Debentures of $3,000,000	180,000 00	
289,680 00		"Pacific Great Eastern Note Payment Loan Act, 1920"—Interest @ 6% on Debentures of $4,828,000	289,680 00	
15,575 00		Dyking Debentures, 1897 and 1899—Interest @ 3½% on $445,000	15,575 00	
47,400 00		"Corporation of the District of South Vancouver Aid Act, 1918"—Interest @ 6% on Treasury Notes of $790,000	47,400 00	
68,075 00		"Better Housing Act, 1919"—Interest @ 5% on Debentures of $1,701,500	85,075 00	
500,000 00		Interest on Debenture issues under various Loan Acts not above provided for, on loans under "Revenue Act," and on Treasury Bills, estimated	510,000 00	
$2,619,113 08				$3,666,113 08
		PREMIUM AND EXCHANGE.		
$ 100,000 00		On drafts for Interest remittances (approximate)		180,000 00
		DISCOUNT AND COMMISSION.		
$ 1,200 00		½% Commission to Loan Trustees on sums annually invested (approximate)	$ 2,000 00	
5,820 00		Annual Commission for inscribing and paying interest on Inscribed Stock, £1,200	5,820 00	
1,000 00		Brokerage, Dividend Warrant Stamps, and postage in London on Sinking Fund Investments and payments of Interest (approximate)	1,000 00	
2,500 00		Commission for payment of Interest on Loans of 1915, 1916, 1917, 1918, 1919, 1920 (approximate)	3,300 00	
100,000 00		Discount and commission on future Loans, Treasury Bills, Debentures, etc. (approximate)	175,000 00	
$ 110,520 00				187,120 00
$2,829,633 08		Total of Vote No. 1		$4,033,233 08

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
	2.	LEGISLATION.		
		Members' Indemnities:		
$ 94,000 00		Forty-seven Members @ $2,000 each	$ 94,000 00	
7,000 00		Mileage	7,000 00	
2,000 00		Allowance to the Leader of the Opposition	2,000 00	
$ 103,000 00				$ 103,000 00
		Salaries:		
$ 1,800 00		Mr. Speaker, Sessional allowance	$ 1,800 00	
500 00		Deputy Speaker, Sessional allowance	500 00	
1,200 00		Clerk of the House, Sessional allowance	1,200 00	
600 00		Law Clerk, Sessional allowance	600 00	
480 00		Sergeant-at-Arms, 12 weeks @ $40 per week	480 00	
270 00		Deputy Sergeant-at-Arms, 9 weeks @ $30 per week	270 00	
200 00		Assistant Sergeant-at-Arms, 8 weeks @ $30 per week	240 00	
(12) 2,400 00		Ten Attendants, 8 weeks @ $25 per week	2,000 00	
360 00		Six Pages, 8 weeks @ $7.50 per week	360 00	
280 00		Two Stenographers, 8 weeks @ $17.50 per week	280 00	
480 00		Four Stenographers, 8 weeks @ $15 per week	480 00	
500 00		Unforeseen and unprovided	490 00	
$ 9,070 00				8,700 00
		Expenses:		
1,850 00		Office supplies, etc.	$ 1,850 00	
12,000 00		Printing, binding, etc.	11,000 00	
250 00		Furniture and fixtures	250 00	
1,000 00		Select Standing Committees	1,000 00	
1,500 00		Dining-room	1,500 00	
500 00		Incidentals	500 00	
$ 17,100 00				16,100 00
$ 129,170 00		Total of Vote No. 2		$ 127,800 00
	3.	PREMIER'S OFFICE.		
		Salaries:		
$ 9,000 00		The Premier (without further salary as head of any Department)	$ 9,000 00	
2,100 00		Secretary	2,100 00	
1,080 00		Clerk and Stenographer	1,080 00	
$ 12,180 00			$ 12,180 00	
		Expenses:		
1,000 00		Office supplies, etc.	1,000 00	
2,000 00		Travelling expenses, etc.	2,000 00	
$ 15,180 00		Total of Vote No. 3		$ 15,180 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF AGRICULTURE.		
	4.	MINISTER'S OFFICE.		
		Salaries:		
$ 7,500 00		The Minister	$ 7,500 00	
2,040 00		Secretary	2,040 00	
900 00		Clerk and Stenographer	900 00	
$ 10,440 00			$ 10,440 00	
		Expenses:		
500 00		Office supplies, etc.	250 00	
2,000 00		Travelling expenses, etc.	2,500 00	
$ 12,940 00		Total of Vote No. 4		$ 13,190 00
	5.	GENERAL OFFICE.		
		Salaries:		
$ 4,120 00		Deputy Minister	$ 4,120 00	
2,020 00		Departmental Secretary	2,020 00	
1,780 00		Accountant, promoted to Chief Clerk	1,900 00	
1,500 00		Accountant	1,500 00	
1,452 00		Clerk	1,452 00	
1,452 00		Clerk	1,452 00	
1,392 00		Clerk	1,392 00	
420 00		Messenger	480 00	
900 00		Clerk and Stenographer	900 00	
1,680 00		Two Stenographers @ $840	1,680 00	
780 00		Stenographer	780 00	
1,500 00		Temporary assistance	1,500 00	
$ 18,996 00			$ 19,176 00	
		Expenses:		
14,000 00		Office supplies, etc.	18,000 00	
2,000 00		Travelling expenses, etc.	1,000 00	
$ 34,996 00		Total of Vote No. 5		38,176 00
	6.	HORTICULTURAL BRANCH.		
		Salaries:		
$ 2,400 00		Provincial Horticulturist	$ 2,520 00	
6,660 00		Three District Horticulturists @ $2,220	6,660 00	
2,220 00		District Horticulturist	1,800 00	
1,620 00		District Horticulturist	.....	
1,980 00		Assistant District Horticulturist	1,980 00	
6,480 00		Four District Field Inspectors @ $1,620	6,480 00	
1,480 00		District Field Inspector	1,480 00	
1,440 00		District Field Inspector	1,440 00	
1,500 00		District Field Inspector	1,500 00	
1,500 00		Clerk (Victoria)	1,500 00	
1,320 00		Clerk (Vernon)	1,392 00	
.....		Stenographer (Penticton)	780 00	
$ 28,600 00		*Carried forward*	$ 27,532 00	$ 51,366 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF AGRICULTURE—*Continued.*		
	6.	HORTICULTURAL BRANCH—*Continued.*		
$ 28,600 00		*Brought forward*	$ 27,532 00	$ 51,366 00
		Salaries—*Continued.*		
840 00		Stenographer (Victoria)	840 00	
1,000 00		Temporary assistance	1,000 00	
$ 30,440 00			$ 29,372 00	
		Expenses:		
8,000 00		Travelling expenses, etc.	14,000 00	
$ 38,440 00		Total of Vote No. 6		43,372 00
	7.	INSPECTION OF IMPORTED AND EXPORTED HORTICULTURAL AND FIELD PRODUCTS, ETC.		
		Salaries:		
$ 2,520 00		Chief Inspector	$ 2,520 00	
1,800 00		Inspector	1,800 00	
1,780 00		Inspector	1,780 00	
3,200 00		Two Inspectors @ $1,600	3,200 00	
1,720 00		Inspector	1,720 00	
1,500 00		Inspector	1,600 00	
900 00		Clerk and Stenographer	900 00	
780 00		Clerk and Stenographer	780 00	
$ 14,200 00			$ 14,300 00	
		Expenses:		
1,500 00		Office supplies, etc.	500 00	
2,400 00		Travelling expenses, etc.	1,000 00	
7,000 00		Inspection fees, casual labour, and other expenses	7,500 00	
$ 25,100 00		Total of Vote No. 7		23,300 00
	8.	CONTROL OF FRUIT PESTS, DISEASES, ETC.		
		Expenses:		
$ 15,000 00		Labour, material, supplies, etc.	$ 16,500 00	
$ 15,000 00		Total of Vote No. 8		16,500 00
	9.	PLANT PATHOLOGY, ETC.		
		Salaries:		
$ 2,280 00		Plant Pathologist	$ 2,280 00	
500 00		Temporary assistance	500 00	
$ 2,780 00			$ 2,780 00	
		Expenses:		
500 00		Office and laboratory supplies, etc.	500 00	
1,000 00		Travelling expenses, etc.	1,000 00	
$ 4,280 00		Total of Vote No. 9		4,280 00
		Carried forward		$ 138,818 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF AGRICULTURE—*Continued.*		
		Brought forward		$ 138,818 00
	10.	MARKETS COMMISSIONER.		
		Salaries:		
$ 2,520 00		Commissioner	$ 2,520 00	
900 00		Clerk and Stenographer	900 00	
300 00		Temporary assistance	300 00	
$ 3,720 00			$ 3,720 00	
		Expenses:		
4,500 00		Office supplies, etc.	4,500 00	
2,500 00		Travelling expenses, etc.	2,500 00	
$ 10,720 00		Total of Vote No. 10		10,720 00
	11.	ENTOMOLOGICAL AND RESEARCH, ETC.		
		Salaries:		
.....		Assistant Entomologist	$ 1,860 00	
.....		Assistant Entomologist	1,680 00	
.....			$ 3,540 00	
		Expenses:		
.....		Office and laboratory supplies and labour	2,250 00	
.....		Travelling expenses	750 00	
.....		Total of Vote No. 11		6,540 00
	12.	LIVE STOCK BRANCH.		
		Salaries:		
$ 2,760 00		Commissioner	$ 2,760 00	
1,600 00		Brand Inspector	1,600 00	
1,720 00		Brand Recorder	1,720 00	
1,392 00		Clerk	1,392 00	
960 00		Clerk	.....	
780 00		Clerk and Stenographer	780 00	
750 00		Temporary assistance	1,000 00	
$ 9,962 00			$ 9,252 00	
		Expenses:		
2,500 00		Travelling expenses, etc.	2,500 00	
$ 12,462 00		Total of Vote No. 12		11,752 00
	13.	POULTRY DIVISION.		
		Salaries:		
$ 2,040 00		Chief Instructor	$ 2,040 00	
3,600 00		Two District Poultry Instructors @ $1,800	3,600 00	
810 00		Clerk and Stenographer	780 00	
200 00		Temporary assistance	600 00	
$ 6,650 00		*Carried forward*	$ 7,020 00	$ 167,830 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF AGRICULTURE—*Continued.*		
	13.	POULTRY DIVISION—*Continued.*		
$ 6,650 00		*Brought forward*	$ 7,020 00	$ 167,830 00
		Expenses:		
2,000 00		Travelling expenses, etc.	4,500 00	
$ 8,650 00		Total of Vote No. 13		11,520 00
	14.	SOIL AND CROP DIVISION.		
		Salaries:		
$ 2,400 00		Chief Instructor	$ 2,400 00	
1,920 00		Assistant Instructor	1,920 00	
810 00		Stenographer	810 00	
.....		Temporary assistance	300 00	
$ 5,130 00			$ 5,430 00	
		Expenses:		
500 00		Office supplies, etc.	400 00	
2,500 00		Travelling expenses, etc.	4,500 00	
1,500 00		Potato certification and seed improvement	3,500 00	
$ 9,630 00		Total of Vote No. 14		13,830 00
	15.	DAIRY BRANCH.		
		Salaries:		
$ 2,520 00		Commissioner	$ 2,520 00	
2,100 00		Dairy Instructor	2,100 00	
.....		Dairy Instructor	2,100 00	
2,400 00		Two Milk-testers @ $1,200	.....	
200 00		Temporary assistance	200 00	
$ 7,220 00			$ 6,920 00	
		Expenses:		
500 00		Office supplies, etc.	500 00	
1,800 00		Travelling expenses, etc.	4,500 00	
$ 9,520 00		Total of Vote No. 15		11,920 00
	16.	VETERINARY BRANCH.		
		Salaries and Expenses (contingent on arrangements expected to be made with the Dominion Government)	$ 18,450 00	
$ 33,200 00				
$ 33,200 00		Total of Vote No. 16		18,450 00
	17.	STATISTICS.		
		Salaries:		
$ 1,420 00		Statistician	$ 1,420 00	
700 00		Temporary assistance	700 00	
$ 2,120 00		*Carried forward*	$ 2,120 00	$ 223,550 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF AGRICULTURE—*Continued.*		
	17.	STATISTICS—*Continued.*		
$ 2,120 00		*Brought forward*	$ 2,120 00	$ 223,550 00
		Expenses:		
1,400 00		Office supplies, etc.	1,200 00	
1,200 00		Travelling expenses, etc.	1,200 00	
$ 4,720 00		Total of Vote No. 17		4,520 00
	18.	DISTRICT AGRICULTURISTS, ETC.		
		Salaries:		
$ 2,100 00		District Agriculturist	$ 2,100 00	
3,600 00		Two District Agriculturists @ $1,800	3,600 00	
900 00		Clerk and Stenographer (Kamloops)	900 00	
420 00		Clerk and Stenographer (Duncan)	420 00	
1,250 00		Temporary assistance	1,250 00	
$ 8,270 00			$ 8,270 00	
		Expenses:		
2,500 00		Office supplies, etc.	2,500 00	
5,500 00		Travelling expenses, etc.	5,500 00	
$ 16,270 00		Total of Vote No. 18		16,270 00
	19.	WORKSHOP AND SHIPPING OFFICE.		
		Salaries:		
$ 1,680 00		General Assistant	$ 1,680 00	
1,300 00		Temporary assistance	1,300 00	
$ 2,980 00			$ 2,980 00	
		Expenses:		
120 00		Office supplies, etc.	100 00	
100 00		Travelling expenses, etc.	100 00	
$ 3,200 00		Total of Vote No. 19		3,180 00
		MISCELLANEOUS GRANTS, ETC.		
	20.	Tubercular cattle—compensation, supplies, temporary assistance, etc.	$ 15,000 00	
$ 30,000 00				
6,000 00	21.	Automobiles and accessories, etc.	6,000 00	
41,000 00	22.	Agricultural fairs, etc.	42,000 00	
9,000 00	23.	Farmers' Institutes, etc.	9,000 00	
7,000 00	24.	Women's Institutes, etc.	7,000 00	
500 00	25.	British Columbia Bee-keepers' Associations	500 00	
2,500 00	26.	British Columbia Dairymen's Association	2,500 00	
250 00	27.	British Columbia Entomological Society	250 00	
3,000 00	28.	British Columbia Fruit-growers' Association	3,000 00	
500 00	29.	British Columbia Goat-breeders' Association	1,000 00	
1,500 00	30.	British Columbia Poultry Association	1,500 00	
$ 101,250 00		*Carried forward*	$ 87,750 00	$ 247,520 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF AGRICULTURE—*Continued.*		
		MISCELLANEOUS GRANTS, ETC.—*Continued.*		
$ 101,250 00		*Brought forward*	$ 87,750 00	$ 247,520 00
2,500 00	31.	British Columbia Stock-breeders' Association	2,500 00	
1,000 00	32.	British Columbia Wool-growers' Associations	1,250 00	
5,000 00	33.	United Seed-growers, Limited ($2,500 to be refunded by Dominion Government)	5,000 00	
150 00	34.	Board of Horticulture	150 00	
2,000 00	35.	Departmental exhibits	2,000 00	
500 00	36.	Compensation *re* foul-brood in bees	250 00	
1,000 00	37.	Control of noxious weeds	1,000 00	
1,000 00	38.	Grants to British Columbia students	500 00	
250 00	39.	Western Canada Live Stock Union	250 00	
1,500 00	40.	Compensation *re* codling-moth control	.....	
1,000 00	41.	Incidentals and contingencies	1,000 00	
2,000 00	42.	Survey *re* Oriental land-owners	.....	
30,000 00	43.	Grants to settlers in aid of purchase of stumping-powder for land-clearing purposes	30,000 00	
.....	44.	Gopher-extermination competition	500 00	
$ 149,150 00		Total, Miscellaneous Grants, etc.		132,150 00
$ 388,278 00		Total, Department of Agriculture		$ 379,670 00
		DEPARTMENT OF THE ATTORNEY-GENERAL.		
	45.	ATTORNEY-GENERAL'S OFFICE.		
		Salaries:		
$ 7,500 00		The Attorney-General	$ 7,500 00	
2,040 00		Secretary	2,040 00	
1,020 00		Clerk and Stenographer	1,020 00	
$ 10,560 00			$ 10,560 00	
		Expenses:		
750 00		Office supplies, etc.	740 00	
2,000 00		Travelling expenses, etc.	2,500 00	
$ 13,310 00		Total of Vote No. 45		$ 13,800 00
	45A.	GENERAL OFFICE.		
		Salaries:		
$ 4,920 00		Deputy Attorney-General	$ 4,920 00	
4,800 00		Legislative Counsel	4,920 00	
4,200 00		Departmental Solicitor	3,600 00	
2,020 00		Chief Clerk	2,100 00	
1,720 00		Accountant	1,800 00	
1,080 00		Clerk and Stenographer	900 00	
870 00		Clerk and Stenographer	870 00	
900 00		Clerk and Stenographer	840 00	
$ 20,510 00		*Carried forward*	$ 19,950 00	$ 13,800 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
	45A.	GENERAL OFFICE—*Continued.*		
$ 20,510 00		*Brought forward*	$ 19,950 00	$ 13,800 00
		Salaries—*Continued.*		
900 00		Clerk	.....	
780 00		Stenographer	660 00	
250 00		Temporary assistance	250 00	
$ 22,440 00			$ 20,860 00	
		Expenses:		
3,500 00		Office supplies, etc.	3,500 00	
1,000 00		Travelling expenses, etc.	1,250 00	
$ 26,940 00		Total of Vote No. 45A		25,610 00
	46.	JOINT-STOCK COMPANIES BRANCH.		
		Salaries:		
$ 3,920 00		Registrar	$ 3,920 00	
1,780 00		Chief Clerk	1,780 00	
960 00		Stenographer	960 00	
870 00		Stenographer	870 00	
.....		Stenographer	780 00	
720 00		Junior Clerk	780 00	
360 00		Junior Clerk	420 00	
500 00		Temporary assistance	500 00	
$ 9,110 00			$ 10,010 00	
		Expenses:		
5,500 00		Office supplies, etc.	5,500 00	
250 00		Travelling expenses, etc.	100 00	
$ 14,860 00		Total of Vote No. 46		15,610 00
	47.	INSURANCE BRANCH.		
		Salaries:		
$ 3,600 00		Superintendent	$ 3,600 00	
2,220 00		Fire Investigator	.....	
1,300 00		Clerk	1,300 00	
780 00		Stenographer	780 00	
$ 7,900 00			$ 5,680 00	
		Expenses:		
.....		Office supplies, etc.	4,050 00	
.....		Travelling expenses, etc.	800 00	
1,000 00		Fire Report fees and expenses	1,000 00	
2,250 00		Fire inquiries and fire protection	2,250 00	
.....		"Fire Marshal Act" (salaries and expenses, etc.)	11,750 00	
$ 11,150 00		Total of Vote No. 47		25,530 00
		Carried forward		$ 80,550 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
		Brought forward		$ 80,550 00
	48.	MUNICIPAL BRANCH.		
		Salaries:		
$ 3,120 00		Inspector of Municipalities	$ 3,120 00	
1,600 00		Clerk	1,600 00	
870 00		Stenographer	780 00	
$ 5,590 00			$ 5,500 00	
		Expenses:		
1,000 00		Office supplies, etc.	1,000 00	
550 00		Travelling expenses, etc.	550 00	
$ 7,140 00		Total of Vote No. 48		7,050 00
	49.	CENSOR OF MOVING PICTURES.		
		Salaries:		
$ 2,820 00		Censor	$ 2,820 00	
1,800 00		Assistant Censor	1,800 00	
1,600 00		Assistant Censor	1,600 00	
1,600 00		Assistant Censor	1,600 00	
1,800 00		Inspector	1,800 00	
1,440 00		Operator	1,440 00	
750 00		Clerk (half-salary)	750 00	
912 00		Stenographer	912 00	
.....		Temporary assistance	150 00	
$ 12,722 00			$ 12,872 00	
		Expenses:		
500 00		Office supplies, etc.	500 00	
1,500 00		Travelling expenses, etc.	1,500 00	
800 00		Machine supplies, etc.	800 00	
$ 15,522 00		Total of Vote No. 49		15,672 00
		ADMINISTRATION OF "PROHIBITION ACT" (THREE MONTHS).		
		(Now closed.)		
$ 1,530 00		Salaries	.....	
5,050 00		Expenses	.....	
$ 6,580 00		Total		.....
		SHERIFFS' OFFICES.		
	50.	VANCOUVER.		
		Salaries:		
$ 4,120 00		Sheriff	$ 4,120 00	
2,220 00		Deputy Sheriff	2,220 00	
1,392 00		Process Server	1,392 00	
1,152 00		Book-keeper and Cashier	1,080 00	
$ 8,884 00		*Carried forward*	$ 8,812 00	$ 103,272 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
		SHERIFFS' OFFICES—*Continued.*		
	50.	VANCOUVER—*Continued.*		
$ 8,884 00		*Brought forward*	$ 8,812 00	$ 103,272 00
		Salaries—*Continued.*		
960 00		Junior Clerk	720 00	
1,250 00		Temporary assistance	1,200 00	
$ 11,094 00			$ 10,732 00	
		Expenses:		
1,000 00		Office supplies, etc.	968 00	
500 00		Travelling expenses, etc.	500 00	
$ 12,594 00		Total of Vote No. 50		$ 12,200 00
	51.	VICTORIA.		
		Salaries:		
$ 3,000 00		Sheriff	$ 3,000 00	
2,100 00		Deputy Sheriff	2,100 00	
1,212 00		Process Server	1,212 00	
900 00		Clerk and Stenographer	900 00	
100 00		Temporary assistance	100 00	
$ 7,312 00			$ 7,312 00	
		Expenses:		
750 00		Office supplies, etc.	738 00	
150 00		Travelling expenses, etc.	250 00	
$ 8,212 00		Total of Vote No. 51		8,300 00
	52.	SUNDRY SHERIFFS.		
$ 9,000 00		Allowances and office supplies, etc.	$ 9,000 00	
$ 9,000 00		Total of Vote No. 52		9,000 00
$ 29,806 00		Total, Sheriffs' Offices		29,500 00
	53.	OFFICIAL GUARDIAN, VANCOUVER.		
		Salaries:		
$ 1,800 00		Official Guardian	$ 1,800 00	
840 00		Stenographer	840 00	
$ 2,640 00			$ 2,640 00	
		Expenses:		
100 00		Office supplies, etc.	100 00	
$ 2,740 00		Total of Vote No. 53		2,740 00
		Carried forward		$135,512 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
		Brought forward			$135,512 00
	54.	LEGAL OFFICES BRANCH.			
		Salaries:			
$ 3,120 00		Inspector of Legal Offices	$ 3,120 00		
1,540 00		Clerk	1,540 00		
780 00		Stenographer	.....		
50 00		Temporary assistance	250 00		
$ 5,490 00			$ 4,910 00		
		Expenses:			
600 00		Office supplies, etc.	600 00		
1,200 00		Travelling expenses, etc.	700 00		
$ 7,290 00		Total of Vote No. 54			6,210 00
		LAND REGISTRY OFFICES.			
	55.	KAMLOOPS.			
		Salaries:			
$ 2,820 00		Registrar	$ 2,820 00		
1,780 00		Chief Clerk	1,780 00		
1,720 00		Surveyor	1,720 00		
1,660 00		Clerk	1,660 00		
1,600 00		Clerk	1,600 00		
1,540 00		Clerk	1,540 00		
1,452 00		Clerk	1,452 00		
1,500 00		Clerk	1,500 00		
1,440 00		Clerk	1,440 00		
2,760 00		Two Clerks @ $1,380	2,760 00		
3,960 00		Three Clerks @ $1,320	3,960 00		
1,200 00		Clerk	.....		
960 00		Clerk	960 00		
720 00		Clerk	720 00		
960 00		Stenographer	960 00		
1,560 00		Two Stenographers @ $780	1,560 00		
750 00		Temporary assistance	1,000 00		
$ 28,382 00			$ 27,432 00		
		Expenses:			
3,600 00		Office supplies, etc.	5,500 00		
100 00		Travelling expenses, etc.	100 00		
$ 32,082 00		Total of Vote No. 55		$ 33,032 00	
	56.	NELSON.			
		Salaries:			
$ 2,820 00		Registrar	$ 2,820 00		
.....		Chief Clerk	1,680 00		
1,600 00		Surveyor	1,600 00		
$ 4,420 00		*Carried forward*	$ 6,100 00	$ 33,032 00	$ 141,722 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
		LAND REGISTRY OFFICES—*Continued.*			
	56.	NELSON—*Continued.*			
$ 4,420 00		*Brought forward*	$ 6,100 00	$ 33,032 00	$ 141,722 00
		Salaries—*Continued.*			
1,540 00		Clerk	.....		
1,500 00		Clerk	1,500 00		
2,904 00		Two Clerks @ $1,452	2,904 00		
1,392 00		Clerk	1,392 00		
780 00		Clerk	780 00		
1,080 00		Janitor	1,080 00		
840 00		Stenographer	840 00		
500 00		Temporary assistance	.....		
$ 14,956 00			$ 14,596 00		
		Expenses:			
2,750 00		Office supplies, etc.	3,300 00		
50 00		Travelling expenses, etc.	.....		
$ 17,756 00		Total of Vote No. 56		17,896 00	
	57.	NEW WESTMINSTER.			
		Salaries:			
$ 3,420 00		Registrar	$ 3,420 00		
2,220 00		Chief Clerk	2,220 00		
1,600 00		Surveyor	1,600 00		
1,500 00		Surveyor	1,500 00		
3,320 00		Two Clerks @ $1,660	3,320 00		
8,000 00		Five Clerks @ $1,600	8,000 00		
3,000 00		Two Clerks @ $1,500	3,000 00		
4,176 00		Three Clerks @ $1,392	4,176 00		
1,320 00		Clerk	1,320 00		
1,200 00		Clerk	.....		
1,320 00		Clerk	.....		
960 00		Stenographer	960 00		
2,340 00		Three Stenographers @ $780	2,340 00		
1,080 00		Janitor	1,080 00		
250 00		Temporary assistance	300 00		
$ 35,706 00			$ 33,236 00		
		Expenses:			
4,700 00		Office supplies, etc.	5,500 00		
100 00		Travelling expenses, etc.	100 00		
$ 40,506 00		Total of Vote No. 57		38,836 00	
	58.	PRINCE RUPERT.			
		Salaries:			
$ 2,820 00		Registrar	$ 2,820 00		
1,780 00		Clerk	1,780 00		
$ 4,600 00		*Carried forward*	$ 4,600 00	$ 89,764 00	$ 141,722 00

Estimates, 1921-22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922-23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
		LAND REGISTRY OFFICES—*Continued.*			
	58.	PRINCE RUPERT—*Continued.*			
$ 4,600 00		*Brought forward*	$ 4,600 00	$ 89,764 00	$ 141,722 00
		Salaries—*Continued.*			
1,020 00		Stenographer	1,020 00		
300 00		Surveyor	300 00		
200 00		Temporary assistance	200 00		
$ 6,120 00			$ 6,120 00		
		Expenses:			
850 00		Office supplies, etc.	1,000 00		
50 00		Travelling expenses	50 00		
100 00		Repairs to building	.....		
$ 7,120 00		Total of Vote No. 58		7,170 00	
	59.	VANCOUVER.			
		Salaries:			
$ 4,800 00		Registrar	$ 4,800 00		
2,440 00		Chief Clerk	2,440 00		
1,900 00		Clerk	1,900 00		
1,800 00		Clerk	1,800 00		
5,340 00		Three Clerks @ $1,780	5,340 00		
1,720 00		Surveyor	1,720 00		
3,440 00		Two Clerks @ $1,720	3,440 00		
1,660 00		Clerk	1,660 00		
4,800 00		Three Clerks @ $1,600	4,800 00		
12,000 00		Eight Clerks @ $1,500	12,000 00		
4,176 00		Three Clerks @ $1,392	4,176 00		
1,332 00		Clerk	1,332 00		
1,272 00		Clerk	1,272 00		
(4) 4,800 00		Clerk	1,200 00		
1,080 00		Stenographer	1,080 00		
1,800 00		Two Stenographers @ $900	1,800 00		
930 00		Stenographer	930 00		
780 00		Stenographer	.....		
1,000 00		Temporary assistance	1,000 00		
$ 57,070 00			$ 52,690 00		
		Expenses:			
4,500 00		Office supplies, etc.	4,500 00		
100 00		Travelling expenses, etc.	100 00		
150 00		Furniture and vault fixtures, etc.	2,200 00		
$ 61,820 00		Total of Vote No. 59		59,490 00	
	60.	VICTORIA			
		Salaries:			
$ 3,720 00		Registrar	$ 3,720 00		
2,100 00		Chief Clerk	2,100 00		
$ 5,820 00		*Carried forward*	$ 5,820 00	$156,424 00	$ 141,722 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*			
		LAND REGISTRY OFFICES—*Continued.*			
	60.	VICTORIA—*Continued.*			
$ 5,820 00		*Brought forward*	$ 5,820 00	$156,424 00	$ 141,722 00
		Salaries—*Continued.*			
1,780 00		Surveyor	1,780 00		
1,720 00		Surveyor	1,720 00		
3,600 00		Two Clerks @ $1,800	3,600 00		
5,160 00		Three Clerks @ $1,720	5,160 00		
3,320 00		Two Clerks @ $1,660	3,320 00		
1,600 00		Clerk	1,600 00		
1,540 00		Clerk	.....		
1,540 00		Clerk	1,540 00		
9,000 00		Six Clerks @ $1,500	9,000 00		
1,452 00		Clerk	1,452 00		
1,332 00		Clerk	1,332 00		
1,392 00		Clerk	1,392 00		
1,320 00		Clerk	1,320 00		
2,304 00		Two Clerks @ $1,152	2,304 00		
900 00		Stenographer	900 00		
840 00		Stenographer	840 00		
720 00		Stenographer	.....		
420 00		Office-boy	600 00		
360 00		Office-boy	540 00		
500 00		Temporary assistance	500 00		
$ 46,620 00			$ 44,720 00		
		Expenses:			
3,050 00		Office supplies, etc.	3,000 00		
50 00		Travelling expenses, etc.	50 00		
1,300 00		Furniture and vault fixtures, etc.	1,450 00		
$ 51,020 00		Total of Vote No. 60		49,220 00	
$ 210,304 00		Total, all Land Registry Offices			205,644 00
		SUPREME AND COUNTY COURTS.			
	61.	CHILLIWACK.			
		Salaries:			
$ 600 00		Registrar (allowance)	$ 600 00		
530 00		Janitor and temporary assistance	530 00		
$ 1,130 00			$ 1,130 00		
		Expenses:			
300 00		Office supplies, etc.	400 00		
.....		Maintenance and repairs	260 00		
300 00		Fuel, light, water, etc.	250 00		
$ 1,730 00		Total of Vote No. 61		$ 2,040 00	
		Carried forward		$ 2,040 00	$ 347,366 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
		SUPREME AND COUNTY COURTS—*Continued.*		
		Brought forward	$ 2,040 00	$ 347,366 00
	62.	LADYSMITH.		
		Salaries:		
$ 420 00		Deputy Registrar (allowance)	$ 420 00	
		Expenses:		
25 00		Office supplies, etc.	25 00	
$ 445 00		Total of Vote No. 62	445 00	
	63.	NELSON.		
		Salaries:		
$ 2,160 00		Registrar	$ 2,160 00	
.....		Temporary assistance	90 00	
$ 2,160 00			$ 2,250 00	
		Expenses:		
300 00		Office supplies, etc.	300 00	
20 00		Travelling expenses, etc.	20 00	
$ 2,480 00		Total of Vote No. 63	2,570 00	
	64.	NEW WESTMINSTER.		
		Salaries:		
$ 2,400 00		Registrar	$ 1,800 00	
1,500 00		Clerk	1,500 00	
1,392 00		Clerk	1,392 00	
960 00		Stenographer	960 00	
250 00		Temporary assistance	250 00	
$ 6,502 00			$ 5,902 00	
		Expenses:		
700 00		Office supplies, etc.	750 00	
$ 7,202 00		Total of Vote eNo. 64	6.652 00	
	65.	PRINCE RUPERT.		
		Salaries:		
$ 2,220 00		Registrar	$ 1,500 00	
		Expenses:		
200 00		Office supplies, etc.	200 00	
250 00		Repairs to building	250 00	
$ 2,670 00		Total of Vote No. 65	1,950 00	
		Carried forward	$ 13,657 00	$ 347,366 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
		SUPREME AND COUNTY COURTS—*Continued.*		
		Brought forward	$ 13,657 00	$ 347,366 00
	66.	VANCOUVER.		
		Salaries:		
$ 3,420 00		Registrar	$ 3,420 00	
2,280 00		Deputy Registrar	2,280 00	
1,800 00		Chief Clerk	.....	
1,500 00		Clerk	.....	
(4) 6,000 00		Six Clerks @ $1,500	9,000 00	
(6) 8,712 00		Five Clerks @ $1,452	7,260 00	
(2) 2,784 00		Clerk	1,392 00	
1,500 00		Clerk	1,320 00	
1,176 00		Clerk	1,176 00	
1,020 00		Stenographer	1,020 00	
1,000 00		Temporary assistance	1,000 00	
$ 31,192 00			$ 27,868 00	
		Expenses:		
2,000 00		Office supplies, etc.	3,000 00	
$ 33,192 00		Total of Vote No. 66		30,868 00
	67.	VICTORIA.		
		Salaries:		
$ 3,000 00		Registrar	$ 3,000 00	
1,800 00		Deputy Registrar	1,800 00	
7,500 00		Five Clerks @ $1,500	7,500 00	
1,392 00		Clerk	1,392 00	
1,200 00		Usher and Janitor	1,200 00	
1,200 00		Assistant Janitor	1,200 00	
1,140 00		Assistant Janitor	1,140 00	
1,140 00		Janitor and Fireman	1,140 00	
1,080 00		Elevator Attendant	1,080 00	
1,140 00		Nightwatchman	1,140 00	
1,200 00		Engineer and Janitor	1,200 00	
900 00		Clerk to Judges	900 00	
750 00		Temporary Assistance	750 00	
$ 23,442 00			$ 23,442 00	
		Expenses:		
2,000 00		Office supplies, etc.	2,500 00	
2,000 00		Maintenance and repairs	2,000 00	
1,000 00		Fuel, light, water, etc.	1,500 00	
$ 28,442 00		Total of Vote No. 67		29,442 00
		Carried forward	$ 73,967 00	$ 347,366 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
		SUPREME AND COUNTY COURTS—*Continued.*		
		Brought forward	$ 73,967 00	$ 347,366 00
	68.	OFFICIAL STENOGRAPHERS.		
		Salaries:		
$ 2,688 00		Two Stenographers @ $1,344	$ 2,688 00	
300 00		Two Stenographers @ $300	600 00	
3,500 00		Civil Court Stenographers	3,500 00	
$ 6,488 00			$ 6,788 00	
700 00		Expenses	700 00	
$ 7,188 00		Total of Vote No. 68	7,488 00	
$ 83,349 00		Total, all Supreme and County Courts		81,455 00
	69.	PROVINCIAL POLICE.		
		Salaries:		
$ 246,227 00		Police and Special Constables	$246,227 00	
		Expenses:		
14,000 00		Office supplies, etc.	10,000 00	
101,374 00		Travelling expenses, transportation, etc.	100,000 00	
1,500 00		Furniture and fixtures	1,700 00	
10,500 00		Uniforms, clothing, and equipment	10,500 00	
4,000 00		Rents	4,000 00	
6,000 00		Maintenance and repairs of buildings, grounds, etc.	6,000 00	
10,000 00		Fuel, light, water, etc.	10,000 00	
5,000 00		Provisions	6,500 00	
2,000 00		Incidentals and contingencies	2,000 00	
$ 400,601 00		Total of Vote No. 69		396,927 00
		COUNTY GAOLS.		
	70.	NELSON.		
		Salaries:		
$ 8,820 00		Gaol officials and sundry employees	$ 10,080 00	
		Expenses:		
200 00		Office supplies, etc.	240 00	
50 00		Travelling expenses, etc.	50 00	
50 00		Furniture and fixtures	60 00	
450 00		Uniforms, clothing, and equipment	600 00	
600 00		Maintenance and repairs of buildings, grounds, etc.	900 00	
585 00		Fuel, light, water, etc.	750 00	
1,825 00		Provisions, etc.	3,000 00	
575 00		Medical attendance and hospital supplies	700 00	
100 00		Incidentals and contingencies	100 00	
$ 13,255 00		Total of Vote No. 70	$ 16,480 00	
		Carried forward	$ 16,480 00	$ 825,748 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
		COUNTY GAOLS—*Continued.*		
		Brought forward	$ 16,480 00	$ 825,748 00
	71.	OAKALLA PRISON FARM.		
		Salaries:		
$ 40,140 00		Gaol officials and sundry employees	$ 46,040 00	
		Expenses:		
1,050 00		Office supplies, etc.	1,050 00	
1,500 00		Travelling expenses, etc.	1,500 00	
750 00		Furniture and fixtures	200 00	
12,450 00		Uniforms, clothing, and equipment	18,000 00	
10,000 00		Maintenance and repairs of buildings, grounds, etc.	10,000 00	
7,150 00		Fuel, light, water, etc.	7,150 00	
30,840 00		Provisions, etc.	35,000 00	
750 00		Incidentals and contingencies	605 00	
1,500 00		Medical attendance and hospital supplies	1,900 00	
.....		Good Conduct Fund	5,475 00	
$ 106,130 00		Total of Vote No. 71	126,920 00	
$ 119,385 00		Total, County Gaols		143,400 00
	72.	GIRLS' INDUSTRIAL SCHOOL.		
		Salaries:		
$ 1,500 00		Superintendent	$ 1,500 00	
900 00		Nurse and Matron	900 00	
720 00		First Assistant	720 00	
720 00		Second Assistant	720 00	
1,500 00		Teacher and Agricultural Instructor	1,500 00	
720 00		Needlewoman	720 00	
720 00		Linen-keeper	720 00	
720 00		Cook	720 00	
1,560 00		Engineer and Janitor	1,560 00	
1,200 00		Gardener	1,200 00	
1,200 00		Gardener	1,380 00	
600 00		Commercial Teacher	600 00	
300 00		Temporary assistance	350 00	
$ 12,360 00			$ 12,590 00	
		Expenses:		
650 00		Office supplies, etc.	700 00	
140 00		Travelling expenses, etc.	190 00	
750 00		Furniture and fixtures	900 00	
2,000 00		Clothing, boots, etc.	2,200 00	
4,500 00		Maintenance and repairs	4,500 00	
2,000 00		Fuel, light, water, etc.	2,000 00	
6,000 00		Provisions, etc.	7,000 00	
1,300 00		Medical attendance and hospital supplies	1,300 00	
$ 29,700 00		*Carried forward*	$ 31,380 00	$ 969,148 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
	72.	GIRLS' INDUSTRIAL SCHOOL—*Continued.*		
$ 29,700 00		*Brought forward*	$ 31,380 00	$ 969,148 00
		Expenses—*Continued.*		
.....		Good Conduct Fund	100 00	
350 00		Incidentals and contingencies	350 00	
$ 30,050 00		Total of Vote No. 72		31,830 00
	73.	ADMINISTRATION OF "INFANTS ACT" AND "MOTHERS' PENSIONS ACT."		
		Salaries:		
$ 3,000 00		Superintendent and Administrator	$ 3,000 00	
1,500 00		Chief Clerk	1,500 00	
900 00		Stenographer	900 00	
1,560 00		Two Stenographers @ $780	1,560 00	
.....		Junior Clerk	780 00	
.....		Chief Investigator	1,500 00	
(3) 3,420 00		Two Investigators @ $1,080	2,160 00	
.....		Temporary assistance	.....	
$ 10,380 00			$ 11,400 00	
		Expenses:		
3,200 00		Office supplies, etc.	3,200 00	
3,000 00		Travelling expenses, etc.	4,000 00	
27,000 00		Grants and contributions to homes, aid societies, etc.	27,000 00	
100 00		Incidentals and contingencies	.....	
$ 43,680 00		Total of Vote No. 73		45,600 00
	74.	ADMINISTRATION OF "MOTOR-VEHICLE ACT."		
		Salaries:		
$ 20,000 00		Officers collecting revenue, including temporary assistance	$ 19,119 00	
		Expenses:		
10,000 00		Office supplies, etc.	10,000 00	
250 00		Travelling expenses, etc.	250 00	
750 00		Furniture and fixtures	500 00	
17,000 00		Plates, badges, etc.	28,785 00	
$ 48,000 00		Total of Vote No. 74		58,654 00
		MISCELLANEOUS VOTES.		
$ 30,000 00	75.	Summoning and paying witnesses	$ 30,000 00	
	76.	Grand and Petit Jurors (including drawing panels, etc.)	27,500 00	
27,500 00				
30,000 00	77.	Prosecutions and Interpreters	30,000 00	
6,500 00	78.	Expenses of inquests, etc.	6,500 00	
3,000 00	79.	Rewards	3,000 00	
$ 97,000 00		*Carried forward*	$ 97,000 00	$1,105,232 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
		MISCELLANEOUS VOTES—*Continued.*		
$ 97,000 00		*Brought forward*	$ 97,000 00	$1,105,232 00
10,000 00	80.	Constitutional litigation and general law costs	10,000 00	
50,000 00	81.	Destruction of wolves, cougars, coyotes, owls, etc., and game protection, including salaries, equipment, travelling expenses, incidentals of office, publicity, and contingencies	35,000 00	
2,500 00	82.	Special surveys	2,500 00	
4,000 00	83.	Stipendiary Magistrates: Nelson $ 500 00; Provisional 3,000 00	3,500 00	
1,500 00	84.	Promotion of uniformity of Provincial legislation in Canada	1,500 00	
12,500 00	85.	"Moving Pictures Act Amendment Act" (salaries and expenses)	6,000 00	
12,500 00	86A.	Incidentals and contingencies	12,500 00	
$ 190,000 00		Total, Miscellaneous Votes		168,000 00
$ 400,000 00	86B.	"Mothers' Pensions Act, 1920"	$500,000 00	
$ 400,000 00		Total of Vote No. 86B		500,000 00
$1,660,707 00		Total, Department of the Attorney-General		$1,773,232 00
		DEPARTMENT OF EDUCATION.		
	87.	GENERAL OFFICE.		
		Salaries:		
$ 4,000 00		Superintendent of Education	$ 4,500 00	
3,600 00		Assistant Superintendent of Education	3,600 00	
2,220 00		Registrar and Officer in Charge of Teachers' Bureau	2,280 00	
2,400 00		Chief Clerk	2,400 00	
1,152 00		Clerk and Stenographer	1,152 00	
1,080 00		Clerk	1,200 00	
1,080 00		Stenographer	1,080 00	
840 00		Stenographer	840 00	
780 00		Stenographer	780 00	
1,800 00		Registrar	.....	
400 00		Temporary assistance	400 00	
$ 19,352 00			$ 18,232 00	
		Expenses:		
9,000 00		Office supplies, etc.	9,000 00	
800 00		Travelling expenses, etc.	800 00	
$ 29,152 00		Total of Vote No. 87		$ 28,032 00
		Carried forward		$ 28,032 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF EDUCATION—*Continued.*		
		Brought forward		$ 28,032 00
	88.	FREE TEXT-BOOK BRANCH.		
		Salaries:		
$ 2,100 00		Officer in Charge	$ 1,920 00	
1,500 00		Clerk	1,500 00	
960 00		Stenographer	960 00	
900 00		Stenographer	.....	
700 00		Temporary assistance	1,200 00	
$ 6,160 00			$ 5,580 00	
		Expenses:		
4,000 00		Office supplies, etc.	4,500 00	
50 00		Travelling expenses, etc.	50 00	
84,670 00		Text-books, maps, globes, etc.	97,600 00	
$ 94,880 00		Total of Vote No. 88		107,730 00
	89.	AGRICULTURAL EDUCATION.		
		Salaries:		
$ 3,420 00		Director	$ 3,420 00	
22,520 00		District Supervisors	11,920 00	
840 00		Clerk and Stenographer	840 00	
$ 26,780 00			$ 16,180 00	
		Expenses:		
1,500 00		Office supplies, etc.	1,200 00	
2,000 00		Travelling expenses, etc.	2,800 00	
12,000 00		Grants in aid of agricultural education	10,000 00	
7,000 00		Summer school (rural science)	10,000 00	
$ 49,280 00			$ 40,180 00	
20,000 00		*Less* special grant from Dominion Government	20,000 00	
$ 29,280 00		Total of Vote No. 89		20,180 00
	90.	INDUSTRIAL EDUCATION.		
		Salaries:		
$ 3,120 00		Organizer	$ 3,120 00	
2,220 00		Officer in Charge of Correspondence Course	2,220 00	
2,280 00		Supervisor of Domestic Science	.....	
780 00		Clerk and Stenographer	780 00	
870 00		Clerk and Stenographer	870 00	
$ 9,270 00		*Carried forward*	$ 6,990 00	$ 155,942 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF EDUCATION—*Continued.*		
	90.	INDUSTRIAL EDUCATION—*Continued.*		
$ 9,270 00		*Brought forward*	$ 6,990 00	$ 155,942 00
		Expenses:		
2,000 00		Office supplies, etc.	2,000 00	
3,000 00		Travelling expenses, etc.	3,000 00	
12,000 00		Night-schools	16,000 00	
8,000 00		Summer schools	10,000 00	
50,000 00		Grants in aid of industrial, commercial, and household science education	65,000 00	
12,000 00		Grant in aid of Technical School, New Westminster	.....	
$ 96,270 00		Total of Vote No. 90		102,990 00
	91.	INSPECTION OF SCHOOLS.		
		Salaries:		
$ 3,240 00		Inspector of High Schools	$ 3,240 00	
3,060 00		Inspector of High Schools	3,060 00	
3,000 00		Inspector of Schools	3,000 00	
5,880 00		Two Inspectors of Schools @ $2,940	5,880 00	
2,880 00		Inspector of Schools	2,880 00	
11,040 00		Four Inspectors of Schools @ $2,760	11,040 00	
5,400 00		Two Inspectors of Schools @ $2,700	5,400 00	
2,640 00		Inspector of Schools	2,640 00	
2,580 00		Inspector of Schools	2,580 00	
2,520 00		Inspector of Schools	2,520 00	
2,400 00		Inspector of Schools	2,400 00	
2,880 00		Inspector of Schools	2,400 00	
2,280 00		Inspector of Schools	2,400 00	
780 00		Stenographer	780 00	
$ 50,580 00			$ 50,220 00	
		Expenses:		
4,000 00		Office supplies, etc.	4,000 00	
21,000 00		Travelling expenses, etc.	24,000 00	
300 00		Office-rents	.....	
$ 75,880 00		Total of Vote No. 91		78,220 00
		NORMAL SCHOOLS.		
	92.	VANCOUVER.		
		Salaries:		
$ 3,420 00		Principal	$ 3,420 00	
3,120 00		Assistant Master	3,120 00	
2,880 00		Assistant Master	2,880 00	
2,820 00		Assistant Master	2,820 00	
2,640 00		Assistant Master	2,640 00	
2,520 00		Assistant Master	2,520 00	
$ 17,400 00		*Carried forward*	$ 17,400 00	$ 337,152 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF EDUCATION—*Continued.*			
		NORMAL SCHOOLS—*Continued.*			
	92.	VANCOUVER—*Continued.*			
$ 17,400 00		*Brought forward*	$ 17,400 00		$ 337,152 00
		Salaries—*Continued.*			
2,160 00		Assistant Mistress	2,160 00		
2,040 00		Music Mistress	2,040 00		
900 00		Librarian and Stenographer	900 00		
1,170 00		Engineer and Gardener	1,170 00		
1,110 00		Janitor	1,140 00		
1,170 00		Gardener	.....		
1,110 00		Gardener	1,140 00		
$ 27,060 00			$ 25,950 00		
		Expenses:			
3,000 00		Office supplies, etc.	3,000 00		
850 00		Travelling expenses, etc.	850 00		
2,000 00		Fuel, light, water, etc.	2,000 00		
2,550 00		Maintenance and repairs of buildings, grounds, etc.	2,850 00		
2,800 00		Students' mileage	2,800 00		
1,200 00		Allowance to teachers assisting Normal students	1,200 00		
$ 39,460 00		Total of Vote No. 92		$ 38,650 00	
	93.	VICTORIA.			
		Salaries:			
$ 3,540 00		Principal	$ 3,540 00		
3,000 00		Assistant Master	3,000 00		
2,940 00		Assistant Master	2,940 00		
2,640 00		Assistant Master	2,640 00		
1,920 00		Domestic Science Mistress	1,920 00		
960 00		Music Mistress	960 00		
2,280 00		Assistant Mistress (Primary Specialist)	2,280 00		
1,920 00		Principal, Model School	1,920 00		
1,560 00		Teacher, Model School	1,560 00		
1,560 00		Engineer	1,560 00		
1,320 00		Assistant Engineer	1,320 00		
1,170 00		Janitor	1,170 00		
900 00		Stenographer and Librarian	900 00		
$ 25,710 00			$ 25,710 00		
		Expenses:			
2,825 00		Office supplies, etc.	2,700 00		
900 00		Travelling expenses, etc.	900 00		
2,720 00		Fuel, light, water, etc.	2,820 00		
$ 32,155 00		*Carried forward*	$ 32,130 00	$ 38,650 00	$ 337,152 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF EDUCATION—*Continued.*			
		NORMAL SCHOOLS—*Continued.*			
	93.	VICTORIA—*Continued.*			
$ 32,155 00		*Brought forward*	$ 32,130 00	$ 38,650 00	$ 337,152 00
		Expenses—*Continued.*			
5,750 00		Maintenance and repairs of buildings, grounds, etc.	5,000 00		
4,000 00		Students' mileage	4,000 00		
850 00		Allowance to teachers assisting Normal students	850 00		
100 00		Incidentals and contingencies	100 00		
$ 42,855 00		Total of Vote No. 93		42,080 00	
$ 82,315 00		Total, Normal Schools			80,730 00
	94.	SCHOOL FOR THE DEAF, DUMB, AND BLIND.			
		Salaries:			
$ 17,000 00		Principal and staff, including household assistance		$ 23,000 00	
		Expenses:			
1,000 00		Office supplies, etc.		200 00	
1,500 00		Travelling expenses, etc.		2,500 00	
2,600 00		Fuel, light, water, etc.		3,000 00	
3,000 00		Maintenance and repairs of buildings, grounds, etc.		3,000 00	
5,000 00		Furniture, fixtures, and equipment		1,000 00	
9,000 00		Provisions, etc.		12,000 00	
8,000 00		Education of blind children		.....	
500 00		Incidentals and contingencies		1,000 00	
$ 47,600 00		Total of Vote No. 94			45,700 00
		PER CAPITA GRANTS.			
$ 670,000 00	95.	Cities		$1,110,000 00	
400,000 00	96.	Municipalities			
137,500 00	97.	Rural school districts		150,000 00	
$1,207,500 00		Total, Per Capita Grants			1,260,000 00
		TEACHERS' SALARIES.			
$ 460,000 00	98.	Assisted schools (as per Schedule)		$490,000 00	
100,000 00	99.	E. & N. Railway Belt (as per Schedule)		100,000 00	
$ 560,000 00		Total, Teachers' Salaries			590,000 00
	100.	SCHOOL BUILDINGS.			
$ 400,000 00		Erection of new buildings and maintenance and repairs of school buildings and special aid to districts			360,000 00
		Carried forward			$2,673,582 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF EDUCATION—*Continued.*		
		Brought forward		$2,673,582 00
		MISCELLANEOUS VOTES.		
$ 1,500 00	101.	Grants to libraries	$ 2,000 00	
3,000 00	102.	Grants in aid of manual-training equipment, High School laboratories, etc.	3,000 00	
20,000 00	103.	Examination of teachers and High School Entrance classes	24,000 00	
12,000 00	104.	Conveying children to central schools	40,000 00	
3,600 00	105.	Scholarships for British Columbia students for post-graduate work in France	.....	
5,000 00	105A.	Miscellaneous grants to Frontier College, etc.	3,000 00	
5,250 00	106.	Incidentals and contingencies	6,000 00	
$ 50,350 00		Total, Miscellaneous Votes		78,000 00
$ 445,000 00	107.	Grant to University of British Columbia		445,000 00
$ 300,000 00	107A.	Rural district school taxes, sec. 26, "Public Schools Act Amendment Act," chap. 74, 1918		300,000 00
$3,418,227 00		Total for Educational Purposes		$3,496,582 00
		DEPARTMENT OF FINANCE.		
	108.	MINISTER'S OFFICE.		
		Salaries:		
$ 7,500 00		Minister of Finance	$ 7,500 00	
2,040 00		Secretary	2,040 00	
1,080 00		Clerk and Stenographer	1,080 00	
$ 10,620 00			$ 10,620 00	
		Expenses:		
700 00		Office supplies, etc.	680 00	
3,000 00		Travelling expenses, etc.	3,000 00	
$ 14,320 00		Total of Vote No. 108		$ 14,300 00
	109.	GENERAL OFFICE.		
		Salaries:		
$ 4,320 00		Deputy Minister	$ 4,320 00	
3,300 00		Assistant Deputy Minister and Inspector of Revenue	3,300 00	
2,400 00		Chief Clerk	2,400 00	
2,220 00		Clerk	2,100 00	
1,920 00		Cashier	1,680 00	
1,800 00		Clerk	1,600 00	
2,904 00		Two Clerks @ $1,452	2,904 00	
$ 18,864 00		*Carried forward*	$ 18,304 00	$ 14,300 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
	109.	GENERAL OFFICE—*Continued.*		
$ 18,864 00		*Brought forward*	$ 18,304 00	$ 14,300 00
		Salaries—*Continued.*		
1,452 00		Clerk	1,452 00	
1,080 00		Clerk	1,080 00	
960 00		Stenographer	960 00	
900 00		Junior Clerk	900 00	
.....		Paymaster	2,400 00	
.....		Stenographer	840 00	
$ 23,256 00			$ 25,936 00	
		Expenses:		
11,690 00		Office supplies, printing bonds, etc.	9,908 00	
2,850 00		Discount and exchange, legal expenses, etc.	5,500 00	
$ 37,796 00		Total of Vote No. 109		41,344 00
	110.	INSPECTOR OF TRUST COMPANIES, PROBATE AND SUCCESSION DUTIES, ETC.		
		Salaries:		
$ 2,670 00		Inspector	$ 2,670 00	
2,000 00		Assistant Inspector	2,000 00	
960 00		Stenographer	960 00	
500 00		Temporary assistance	200 00	
$ 6,130 00			$ 5,830 00	
		Expenses:		
200 00		Office supplies, etc.	1,170 00	
7,500 00		Valuators of Estates	5,000 00	
1,000 00		Travelling expenses, etc.	1,000 00	
$ 14,830 00		Total of Vote No. 110		13,000 00
	111.	CONTROLLING AND AUDIT BRANCH.		
		Salaries:		
$ 6,000 00		Comptroller-General	$ 6,000 00	
3,120 00		Deputy Comptroller-General	3,120 00	
1,900 00		Accountant	1,900 00	
1,080 00		Secretary	1,080 00	
2,640 00		Auditor of Revenue	2,640 00	
2,040 00		Travelling Auditor	2,040 00	
1,920 00		Travelling Auditor	1,920 00	
840 00		Stenographer	.....	
2,640 00		Auditor of Disbursements	2,640 00	
1,900 00		Chief Clerk	1,900 00	
5,400 00		Three Clerks @ $1,800	5,400 00	
(3) 4,980 00		Two Clerks @ $1,660	3,320 00	
(1) 1,500 00		Two Clerks @ $1,500	3,000 00	
$ 35,960 00		*Carried forward*	$ 34,960 00	$ 68,644 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
	111.	CONTROLLING AND AUDIT BRANCH—*Continued.*		
$ 35,960 00		*Brought forward*	$ 34,960 00	$ 68,644 00
		Salaries—*Continued.*		
1,380 00		Clerk	1,380 00	
840 00		Junior Clerk	840 00	
900 00		Stenographer	900 00	
900 00		Stenographer	840 00	
900 00		Stenographer	780 00	
3,360 00		Purchasing Agent	3,360 00	
2,220 00		Assistant Purchasing Agent	2,220 00	
1,500 00		Clerk	1,500 00	
.....		Temporary assistance	340 00	
$ 47,960 00			$ 47,120 00	
		Expenses:		
1,610 00		Office supplies, etc.	1,730 00	
4,150 00		Travelling expenses, etc.	4,150 00	
$ 53,720 00		Total of Vote No. 111		53,000 00
	112.	SURVEYOR OF TAXES.		
		Salaries:		
		General Office.		
$ 3,420 00		Surveyor of Taxes	$ 3,420 00	
3,120 00		Assistant Surveyor of Taxes	3,120 00	
2,400 00		Supervisor	2,400 00	
1,720 00		Chief Clerk	1,720 00	
3,000 00		Two Clerks @ $1,500	3,000 00	
1,500 00		Clerk	1,320 00	
1,272 00		Clerk	.....	
960 00		Clerk and Stenographer	960 00	
840 00		Stenographer	840 00	
780 00		Stenographer	780 00	
2,000 00		Temporary assistance	2,500 00	
			$ 20,060 00	
		Income-tax Audits.		
2,400 00		Auditor	$ 2,400 00	
2,040 00		Auditor	2,040 00	
3,840 00		Two Auditors @ $1,920	3,840 00	
1,800 00		Auditor	1,800 00	
1,620 00		Auditor	1,620 00	
1,200 00		Clerk	1,200 00	
780 00		Stenographer	780 00	
			13,680 00	
$ 34,692 00		*Carried forward*	$ 33,740 00	$ 121,644 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
	112.	SURVEYOR OF TAXES—*Continued.*		
$ 34,692 00		*Brought forward*	$ 33,740 00	$ 121,644 00
		Expenses:		
5,000 00		Office supplies, etc.	5,000 00	
2,500 00		Travelling expenses, etc.	2,260 00	
21,320 00		Temporary Auditors, reorganization, salaries, expenses, etc.	26,000 00	
5,000 00		Taxation Department supplies	5,000 00	
3,000 00		Courts of Revision and Appeal	3,000 00	
35,000 00		Timber-cruising, equalization, etc.	30,000 00	
15,000 00		Commissions on collection of general revenue	15,000 00	
$ 121,512 00		Total of Vote No. 112		120,000 00
	113.	OPERATION OF THE "AMUSEMENTS TAX ACT."		
		Salaries:		
$ 1,800 00		Inspector, Mainland	$ 1,920 00	
1,800 00		Inspector, Vancouver Island	1,500 00	
600 00		Temporary assistance	780 00	
$ 4,200 00			$ 4,200 00	
		Expenses:		
1,620 00		Office supplies, etc.	1,620 00	
500 00		Travelling expenses, etc.	500 00	
$ 6,320 00		Total of Vote No. 113		6,320 00
	114.	BUREAU OF INFORMATION.		
		Salaries:		
$ 2,400 00		Secretary	$ 2,400 00	
1,800 00		Clerk	.....	
1,500 00		Clerk	1,500 00	
1,392 00		Clerk	1,392 00	
780 00		Stenographer	780 00	
$ 7,872 00			$ 6,072 00	
		Expenses:		
1,000 00		Office supplies, etc.	928 00	
26,000 00		Pamphlets, advertising, etc.	15,000 00	
$ 34,872 00		Total of Vote No. 114		22,000 00
	115.	AGENT-GENERAL'S OFFICE AND B.C. HOUSE, LONDON, ENGLAND.		
		Agent-General's Office.		
		Salaries:		
$ 8,000 00		Agent-General	$ 8,000 00	
3,900 00		Secretary	3,900 00	
$ 11,900 00		*Carried forward*	$ 11,900 00	$ 269,964 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
	115.	AGENT-GENERAL'S OFFICE AND B.C. HOUSE, LONDON, ENGLAND—*Continued.*		
		Agent-General's Office—Continued.		
$ 11,900 00		*Brought forward*	$ 11,900 00	$ 269,964 00
		Salaries—*Continued.*		
1,500 00		Private Secretary	1,500 00	
756 60		Clerk	907 92	
409 88		Clerk	560 16	
504 40		Clerk	643 12	
974 20		Stenographer	974 20	
630 52		Stenographer	731 40	
324 40		Temporary assistance	183 20	
$ 17,000 00			$ 17,400 00	
		Expenses:		
$ 4,450 00		Office Supplies, etc.	$ 4,200 00	
1,750 00		Allowance, travelling and other expenses	1,750 00	
3,500 00		Advertising	3,000 00	
$ 9,700 00			8,950 00	
$ 26,700 00		Total, Agent-General's Office	$ 26,350 00	
		British Columbia House, London.		
$ 12,125 00		Interest on mortgage	$ 12,125 00	
12,125 00		Ground-rent	12,125 00	
16,000 00		Rates and taxes	18,900 00	
3,000 00		Maintenance and repairs to building	3,000 00	
350 00		Insurance	310 00	
3,000 00		Fuel and light, etc.	3,000 00	
5,000 00		Cleaning and Janitors' supplies	5,000 00	
1,000 00		Contingencies	990 00	
$ 52,600 00		Total, B.C. House	55,450 00	
$ 79,300 00		Total of Vote No. 115		81,800 00
		GOVERNMENT AGENTS AND ASSESSORS, ETC.		
	116.	ALBERNI AGENCY.		
		Salaries:		
$ 2,020 00		Government Agent	$ 2,020 00	
1,800 00		Assessor	1,800 00	
1,500 00		Clerk and Registrar	1,500 00	
1,452 00		Clerk	1,452 00	
780 00		Stenographer	780 00	
540 00		Janitor	540 00	
$ 8,092 00		*Carried forward*	$ 8,092 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*			
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
	116.	ALBERNI AGENCY—*Continued.*			
$ 8,092 00		*Brought forward*	$ 8,092 00		$ 351,764 00
1,760 00		Expenses	1,758 00		
$ 9,852 00		Total of Vote No. 116		$ 9,850 00	
	117.	ANYOX AGENCY.			
		Salaries:			
$ 1,800 00		Government Agent	$ 2,020 00		
960 00		Temporary assistance	300 00		
$ 2,760 00			$ 2,320 00		
1,050 00		Expenses	980 00		
$ 3,810 00		Total of Vote No. 117		3,300 00	
	118.	ASHCROFT SUB-AGENCY.			
		Salaries:			
$ 1,800 00		Government Agent	.....		
1,800 00		Assessor	$ 1,800 00		
1,392 00		Clerk	.....		
500 00		Janitor	.....		
$ 5,492 00			$ 1,800 00		
4,091 00		Expenses	500 00		
$ 9,583 00		Total of Vote No. 118		2,300 00	
	119.	ATLIN AGENCY.			
		Salaries:			
$ 2,400 00		Government Agent	$ 2,400 00		
1,800 00		Assessor	.....		
1,800 00		Clerk	1,800 00		
1,080 00		Stenographer	1,200 00		
730 00		Janitor and Nightwatchman	730 00		
600 00		Temporary assistance	480 00		
$ 8,410 00			$ 6,610 00		
4,065 00		Expenses	3,390 00		
$ 12,475 00		Total of Vote No. 119		10,000 00	
	120.	BARKERVILLE SUB-AGENCY.			
		Salaries:			
		Gold Commissioner and Mining Recorder	$ 1,900 00		
$ 1,900 00		Stenographer	840 00		
840 00					
$ 2,740 00		*Carried forward*	$ 2,740 00	$ 25,450 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*		
	120.	BARKERVILLE SUB-AGENCY—*Continued.*		
$ 2,740 00		*Brought forward*	$ 2,740 00	$ 25,450 00 $ 351,764 00
1,982 50		Expenses	1,100 00	
$ 4,722 50		Total of Vote No. 120		3,840 00
	121.	CLINTON AGENCY.		
		Salaries:		
$ 2,100 00		Government Agent	$ 2,100 00	
1,500 00		Clerk	1,500 00	
900 00		Stenographer	780 00	
300 00		Temporary assistance	300 00	
$ 4,800 00			$ 4,680 00	
2,333 00		Expenses	1,570 00	
$ 7,133 00		Total of Vote No. 121		6,250 00
	122.	CRANBROOK AGENCY.		
		Salaries:		
$ 2,340 00		Government Agent	$ 2,340 00	
1,800 00		Assessor	1,800 00	
1,720 00		Clerk	1,540 00	
(1) 1,500 00		Two Clerks @ $1,500	3,000 00	
1,020 00		Cashier and Clerk	1,080 00	
840 00		Stenographer	780 00	
780 00		Junior Clerk	780 00	
1,080 00		Janitor	1,080 00	
$ 11,080 00			$ 12,400 00	
3,235 00		Expenses	2,940 00	
$ 14,315 00		Total of Vote No. 122		15,340 00
	123.	CUMBERLAND AGENCY.		
		Salaries:		
$ 2,100 00		Government Agent	$ 2,100 00	
1,800 00		Assessor	1,800 00	
1,500 00		Clerk	1,500 00	
1,392 00		Clerk	1,200 00	
780 00		Stenographer	780 00	
$ 7,572 00			$ 7,380 00	
3,467 50		Expenses	2,620 00	
$ 11,039 50		Total of Vote No. 123		10,000 00
		Carried forward		$ 60,880 00 $ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*		
		Brought forward	$ 60,880 00	$ 351,764 00
	124.	DUNCAN AGENCY.		
		Salaries:		
$ 2,100 00		Government Agent	$ 2,100 00	
1,192 00		Clerk	1,192 00	
1,200 00		Clerk	1,020 00	
870 00		Stenographer	780 00	
$ 5,362 00			$ 5,092 00	
3,653 00		Expenses	1,908 00	
$ 9,015 00		Total of Vote No. 124		7,000 00
	...	FAIRVIEW AGENCY.		
		(To be closed.)		
		Salaries:		
$ 2,100 00		Government Agent	.....	
1,500 00		Clerk	.....	
780 00		Clerk	.....	
$ 4,380 00			.....	
2,065 00		Expenses	.....	
$ 6,445 00		Total of Vote No.		.....
	125.	FERNIE AGENCY.		
		Salaries:		
$ 2,100 00		Government Agent	$ 2,100 00	
1,500 00		Clerk	1,500 00	
1,452 00		Clerk	1,452 00	
780 00		Stenographer	780 00	
1,080 00		Janitor	1,080 00	
$ 6,912 00			$ 6,912 00	
2,802 00		Expenses	1,888 00	
$ 9,714 00		Total of Vote No. 125		8,800 00
	126.	FORT FRASER AGENCY.		
		Salaries:		
$ 1,720 00		Government Agent	$ 1,720 00	
1,332 00		Clerk	1,332 00	
$ 3,052 00			$ 3,052 00	
1,705 00		Expenses	1,648 00	
$ 4,757 00		Total of Vote No. 126		4,700 00
		Carried forward	$ 81,380 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*		
		Brought forward	$ 81,380 00	$ 351,764 00
	127.	FORT GEORGE AGENCY.		
		Salaries:		
$ 2,100 00		Government Agent	$ 2,100 00	
1,392 00		Clerk	1,392 00	
1,332 00		Clerk	1,332 00	
1,272 00		Clerk	1,200 00	
720 00		Janitor	720 00	
$ 6,816 00			$ 6,744 00	
3,107 50		Expenses	3,156 00	
$ 9,923 50		Total of Vote No. 127	9,900 00	
	128.	GOLDEN AGENCY.		
		Salaries:		
$ 1,920 00		Government Agent	$ 1,920 00	
1,800 00		Assessor	1,800 00	
1,272 00		Clerk	1,320 00	
780 00		Stenographer	.....	
900 00		Janitor	900 00	
200 00		Temporary assistance	300 00	
$ 6,872 00			$ 6,240 00	
2,976 60		Expenses	2,360 00	
$ 9,848 60		Total of Vote No. 128	8,600 00	
	129.	GRAND FORKS SUB-AGENCY.		
		Salaries:		
$ 2,020 00		Government Agent	.....	
1,500 00		Clerk (to be Sub-agent)	$ 1,620 00	
960 00		Janitor	960 00	
$ 4,480 00			$ 2,580 00	
1,814 00		Expenses	1,240 00	
$ 6,294 00		Total of Vote No. 129	3,820 00	
	130.	GREENWOOD SUB-AGENCY.		
		Salaries:		
$ 2,020 00		Government Agent	.....	
1,500 00		Clerk (to be Sub-agent)	$ 1,620 00	
$ 3,520 00			$ 1,620 00	
1,780 00		Expenses	1,400 00	
$ 5,300 00		Total of Vote No. 130	3,020 00	
		Carried forward	$106,720 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*			
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
		Brought forward		$106,720 00	$ 351,764 00
	131.	KAMLOOPS AGENCY.			
		Salaries:			
$ 2,340 00		Government Agent	$ 2,400 00		
1,920 00		Assessor	1,920 00		
.....		Collector	2,100 00		
1,600 00		Clerk	1,600 00		
1,452 00		Clerk	1,452 00		
(2) 2,784 00		Three Clerks @ $1,392	4,176 00		
960 00		Stenographer	960 00		
.....		Two Stenographers @ $780	1,560 00		
720 00		Junior Clerk	720 00		
1,080 00		Janitor	1,200 00		
300 00		Temporary assistance	600 00		
.....		Special Collector	1,800 00		
$ 13,156 00			$ 20,488 00		
6,130 00		Expenses	6,362 00		
$ 19,286 00		Total of Vote No. 131		26,850 00	
	132.	KASLO AGENCY.			
		Salaries:			
$ 2,100 00		Government Agent	$ 2,100 00		
1,920 00		Assessor	1,920 00		
1,452 00		Clerk	1,452 00		
1,392 00		Clerk	1,200 00		
1,080 00		Clerk	1,080 00		
1,080 00		Stenographer	1,080 00		
1,080 00		Janitor	1,080 00		
$ 10,104 00			$ 9,912 00		
3,470 00		Expenses	3,088 00		
$ 13,574 00		Total of Vote No. 132		13,000 00	
	133.	LILLOOET SUB-AGENCY.			
		Salaries:			
$ 1,800 00		Assessor	$ 1,800 00		
2,020 00		Mining Recorder	2,020 00		
1,332 00		Clerk	1,332 00		
$ 5,152 00			$ 5,152 00		
2,498 75		Expenses	1,848 00		
$ 7,650 75		Total of Vote No. 133		7,000 00	
		Carried forward		$153,570 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*		
		Brought forward	$153,570 00	$ 351,764 00
	134.	MERRITT SUB-AGENCY.		
		Salaries:		
$ 2,020 00		Government Agent	.....	
1,800 00		Assessor	.....	
1,600 00		Clerk (to be Sub-agent)	$ 1,620 00	
1,392 00		Clerk	.....	
780 00		Stenographer	.....	
1,020 00		Janitor	1,020 00	
$ 8,612 00			$ 2,640 00	
1,184 00		Expenses	660 00	
$ 9,796 00		Total of Vote No. 134		3,300 00
	135.	NANAIMO AGENCY.		
		Salaries:		
$ 2,252 00		Government Agent	$ 2,252 00	
2,040 00		Assessor	2,040 00	
1,500 00		Clerk	1,500 00	
1,272 00		Clerk	1,272 00	
1,600 00		Clerk	.....	
1,080 00		Clerk and Stenographer	1,080 00	
1,560 00		Two Stenographers @ $840	1,680 00	
1,140 00		Janitor	1,140 00	
$ 12,444 00			$ 10,964 00	
4,713 00		Expenses	3,406 00	
$ 17,157 00		Total of Vote No. 135		14,370 00
	136.	NELSON AGENCY.		
		Salaries:		
$ 2,400 00		Government Agent	$ 2,400 00	
1,980 00		Assessor	1,980 00	
1,500 00		Clerk	1,500 00	
1,452 00		Clerk	1,452 00	
1,392 00		Clerk	1,392 00	
780 00		Junior Clerk	780 00	
1,560 00		Two Stenographers @ $840	1,680 00	
1,080 00		Janitor	1,080 00	
500 00		Temporary assistance	200 00	
$ 12,644 00			$ 12,464 00	
4,340 00		Expenses	4,316 00	
$ 16,984 00		Total of Vote No. 136		16,780 00
		Carried forward	$188,020 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*		
		Brought forward	$188,020 00	$ 351,764 00
	137.	NEW WESTMINSTER AGENCY.		
		Salaries:		
$ 2,400 00		Government Agent	$ 2,400 00	
2,100 00		Assessor	2,100 00	
1,800 00		Clerk and Mining Recorder	1,800 00	
1,800 00		Collector	1,800 00	
1,700 00		Tax-collector	1,700 00	
1,452 00		Clerk	1,452 00	
1,272 00		Clerk	1,440 00	
1,272 00		Clerk	1,320 00	
960 00		Stenographer	900 00	
780 00		Stenographer	780 00	
1,380 00		Chief Janitor	1,380 00	
1,140 00		Janitor	1,140 00	
1,020 00		Janitor and Nightwatchman	1,020 00	
300 00		Temporary assistance	100 00	
$ 19,376 00			$ 19,332 00	
6,786 94		Expenses	6,518 00	
$ 26,162 94		Total of Vote No. 137		25,850 00
	138.	NEW DENVER SUB-AGENCY.		
		Salaries:		
$ 1,720 00		Mining Recorder	$ 1,720 00	
1,190 00		Expenses	480 00	
$ 2,910 00		Total of Vote No. 138		2,200 00
	139.	150-MILE HOUSE AGENCY.		
		Salaries:		
$ 1,720 00		Government Agent	$ 1,800 00	
1,500 00		Clerk	1,500 00	
1,320 00		Clerk	.....	
$ 4,540 00			$ 3,300 00	
1,800 00		Expenses	1,700 00	
$ 6,340 00		Total of Vote No. 139		5,000 00
	140.	PENTICTON AGENCY.		
		Salaries:		
.....		Government Agent	$ 2,200 00	
.....		Assessor	2,400 00	
.....		Collector	2,100 00	
.....		Clerk	1,600 00	
.....		Two Clerks @ $1,320	2,640 00	
.....		*Carried forward*	$ 10,940 00	$221,070 00 $ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*			
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
	140.	PENTICTON AGENCY—*Continued.*			
.....		*Brought forward*	$ 10,940 00	$221,070 00	$ 351,764 00
		Salaries—*Continued.*			
.....		Stenographer	870 00		
.....		Two Stenographers @ $780	1,560 00		
.....			$ 13,370 00		
.....		Expenses	7,130 00		
.....		Total of Vote No. 140		20,500 00	
	141.	POUCE COUPE AGENCY.			
		Salaries:			
$ 1,920 00		Government Agent	$ 1,920 00		
1,740 00		Deputy Assessor	1,740 00		
1,500 00		Clerk	1,500 00		
$ 5,160 00			$ 5,160 00		
1,840 00		Expenses	1,840 00		
$ 7,000 00		Total of Vote No. 141		7,000 00	
	142.	PRINCE RUPERT AGENCY.			
		Salaries:			
$ 2,340 00		Government Agent	$ 2,340 00		
2,160 00		Assessor	2,160 00		
2,020 00		Chief Clerk	1,500 00		
2,784 00		Two Clerks @ $1,464	2,928 00		
900 00		Stenographer	900 00		
1,800 00		Collector	1,800 00		
1,560 00		Clerk	1,560 00		
1,320 00		Clerk	1,464 00		
.....		Clerk	1,332 00		
1,452 00		Stenographer and Clerk	.....		
1,020 00		Stenographer	1,020 00		
1,140 00		Janitor and Gardener	1,140 00		
660 00		Assistant Janitor	660 00		
600 00		Temporary assistance	600 00		
$ 19,756 00			$ 19,404 00		
10,080 00		Expenses	8,496 00		
$ 29,836 00		Total of Vote No. 142		27,900 00	
		Carried forward		$276,470 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*		
		Brought forward	$276,470 00	$ 351,764 00
	...	PRINCETON AGENCY.		
		(To be closed.)		
		Salaries:		
$ 2,020 00		Government Agent	.....	
1,392 00		Clerk	.....	
1,200 00		Temporary assistance	.....	
$ 4,612 00				
2,390 00		Expenses	.....	
$ 7,002 00		Total of Vote No. ...	.....	.....
	143.	QUESNEL AGENCY.		
		Salaries:		
$ 2,100 00		Government Agent	$ 2,100 00	
1,920 00		Assessor	1,800 00	
.....		Collector	1,920 00	
(2) 3,200 00		Clerk	1,600 00	
6,000 00		Four Clerks @ $1,500	6,000 00	
1,380 00		Clerk	1,380 00	
1,320 00		Clerk	1,320 00	
.....		Stenographer and Clerk	1,020 00	
1,800 00		Stenographer	900 00	
900 00		Junior Clerk	720 00	
300 00		Janitor	300 00	
360 00		Temporary assistance	360 00	
$ 19,280 00			$ 19,420 00	
7,340 00		Expenses	6,800 00	
$ 26,620 00		Total of Vote No. 143		26,220 00
	144.	QUEEN CHARLOTTE ISLANDS SUB-AGENCY.		
		Salaries:		
$ 900,00		Mining Recorder	$ 900 00	
541 25		Expenses	540 00	
$ 1,441 25		Total of Vote No. 144		1,440 00
	145.	REVELSTOKE AGENCY.		
		Salaries:		
$ 2,100 00		Government Agent	$ 2,100 00	
1,920 00		Assessor	1,920 00	
1,540 00		Mining Recorder	1,540 00	
1,392 00		Clerk	1,392 00	
900 00		Stenographer	900 00	
$ 7,852 00		*Carried forward*	$ 7,852 00	$304,130 00 $ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*			
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
	145.	REVELSTOKE AGENCY—*Continued.*			
$ 7,852 00		*Brought forward*	$ 7,852 00	$304,130 00	$ 351,764 00
		Salaries—*Continued.*			
840 00		Stenographer	840 00		
1,080 00		Janitor	1,080 00		
$ 9,772 00			$ 9,772 00		
4,475 00		Expenses	4,028 00		
$ 14,247 00		Total of Vote No. 145		13,800 00	
	146.	ROSSLAND SUB-AGENCY.			
		Salaries:			
$ 2,100 00		Government Agent	.....		
2,400 00		Assessor	.....		
1,480 00		Clerk (to be Sub-agent)	$ 1,620 00		
1,392 00		Clerk	.....		
870 00		Stenographer	.....		
1,020 00		Janitor	.....		
300 00		Temporary assistance	300 00		
$ 9,562 00			$ 1,920 00		
5,492 00		Expenses	1,180 00		
$ 15,054 00		Total of Vote No. 146		3,100 00	
	147.	SMITHERS AGENCY.			
		Salaries:			
$ 2,100 00		Government Agent	$ 2,100 00		
2,040 00		Assessor	2,040 00		
1,720 00		Mining Recorder	1,720 00		
1,500 00		Clerk	1,600 00		
1,392 00		Clerk	1,392 00		
3,792 00		Three Clerks @ $1,320	3,960 00		
$ 12,544 00			$ 12,812 00		
3,796 00		Expenses	3,988 00		
$ 16,340 00		Total of Vote No. 147		16,800 00	
	148.	TELEGRAPH CREEK AGENCY.			
		Salaries:			
$ 1,720 00		Government Agent	$ 1,720 00		
500 00		Temporary assistance	250 00		
$ 2,220 00		*Carried forward*	$ 1,970 00	$337,830 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*			
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
	148.	TELEGRAPH CREEK AGENCY—*Continued.*			
$ 2,220 00		*Brought forward*	$ 1,970 00	$337,830 00	$ 351,764 00
2,008 75		Expenses	900 00		
$ 4,228 75		Total of Vote No. 148		2,870 00	
		TROUT LAKE SUB-AGENCY.			
		(To be closed.)			
		Salaries:			
$ 1,272 00		Mining Recorder	.....		
467 20		Expenses	.....		
$ 1,739 20		Total of Vote No.	.....	.....	
	149.	VANCOUVER AGENCY.			
		Salaries:			
$ 2,820 00		Government Agent	$ 2,820 00		
2,020 00		Mining Recorder, etc.	2,020 00		
4,356 00		Three Clerks @ $1,452	4,356 00		
1,440 00		Clerk	1,440 00		
960 00		Stenographer	900 00		
1,560 00		Two Stenographers @ $780	1,560 00		
720 00		Junior Clerk	720 00		
300 00		Temporary assistance	300 00		
		Assessor and Collector's Office.			
2,640 00		Assessor	2,520 00		
2,340 00		Collector	2,340 00		
2,020 00		Chief Clerk	2,020 00		
.....		Clerk	1,620 00		
1,600 00		Clerk	1,600 00		
3,000 00		Two Clerks @ $1,500	3,000 00		
7,260 00		Four Clerks @ $1,452	5,808 00		
1,452 00		Clerk	1,392 00		
1,452 00		Clerk	1,320 00		
1,200 00		Cashier	1,272 00		
3,400 00		Two Tax-collectors @ $1,700	3,400 00		
960 00		Stenographer	960 00		
840 00		Stenographer	900 00		
1,200 00		Temporary assistance	1,200 00		
		Court-house Attendants.			
1,860 00		Engineer	1,860 00		
1,500 00		Fireman	1,500 00		
1,380 00		Fireman	1,380 00		
1,500 00		Carpenter	1,500 00		
$ 49,780 00		*Carried forward*	$ 49,708 00	$340,700 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*			
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
	149.	VANCOUVER AGENCY—*Continued.*			
$ 49,780 00		*Brought forward*	$ 49,708 00	$340,700 00	$ 351,764 00
		Salaries—*Continued.*			
		Court-house Attendants—Continued.			
1,500 00		Chief Janitor	1,500 00		
1,140 00		Nightwatchman	1,140 00		
1,260 00		Nightforeman and Janitor	1,260 00		
1,320 00		Gardener and Janitor	1,320 00		
12,000 00		Ten Janitors @ $1,200	12,000 00		
3,600 00		Three Janitors @ $1,140	3,420 00		
1,140 00		Usher	1,140 00		
1,140 00		Gardener	1,140 00		
$ 72,880 00			$ 72,628 00		
		Expenses:			
4,000 00		Office supplies, etc.	4,000 00		
1,200 00		Travelling expenses, etc.	1,200 00		
10,105 00		Maintenance and repairs of building, etc.	9,195 00		
21,371 00		Fuel, light, water, etc.	22,327 00		
$ 109,556 00		Total of Vote No. 149		109,350 00	
	150.	VERNON AGENCY.			
		Salaries:			
$ 2,100 00		Government Agent	$ 2,100 00		
2,072 00		Assessor	2,072 00		
.....		Collector	1,800 00		
3,000 00		Two Clerks @ $1,500	3,000 00		
1,392 00		Clerk	1,152 00		
780 00		Junior Clerk	780 00		
780 00		Stenographer	780 00		
1,020 00		Janitor	1,080 00		
.....		Temporary assistance	300 00		
$ 11,144 00			$ 13,064 00		
4,584 00		Expenses	6,336 00		
$ 15,728 00		Total of Vote No. 150		19,400 00	
	151.	VICTORIA ASSESSOR.			
		Salaries:			
$ 2,940 00		Assessor	$ 2,940 00		
2,340 00		Collector	2,340 00		
1,620 00		Chief Clerk	1,620 00		
1,500 00		Clerk	1,500 00		
$ 8,400 00		*Carried forward*	$ 8,400 00	$469,450 00	$ 351,764 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*			
		GOVERNMENT AGENTS AND ASSESSORS, ETC.—*Continued.*			
	151.	VICTORIA ASSESSOR—*Continued.*			
$ 8,400 00		*Brought forward*	$ 8,400 00	$469,450 00	$ 351,764 00
		Salaries—*Continued.*			
1,392 00		Clerk	1,452 00		
1,320 00		Clerk	1,380 00		
1,272 00		Clerk	1,320 00		
5,100 00		Three Tax-collectors @ $1,700	5,100 00		
870 00		Stenographer	870 00		
500 00		Temporary assistance	.....		
$ 18,854 00			$ 18,522 00		
4,890 00		Expenses	3,668 00		
$ 23,744 00		Total of Vote No. 151		22,190 00	
	151A.	WILMER SUB-AGENCY.			
		Salaries:			
$ 1,800 00		Mining Recorder, etc.	$ 1,800 00		
605 00		Expenses	600 00		
$ 2,405 00		Total of Vote No. 151A		2,400 00	
...		YALE SUB-AGENCY.			
		(To be closed.)			
		Salaries:			
$ 1,660 00		Mining Recorder, etc.	.....		
675 00		Expenses	.....		
$ 2,335 00		Total of Vote No.		.....	
	152.	SUNDRY SUB-AGENCIES.			
$ 3,500 00		Commissions, salaries, and expenses ...	$ 4,500 00		
$ 3,500 00		Total of Vote No. 152		4,500 00	
	153.	SUNDRY AGENCIES AND ASSESSORS, ETC.			
$ 3,500 00		Construction of fire-proof vaults and purchase of safes for protection of public documents	$ 3,500 00		
$ 3,500 00		Total of Vote No. 153		3,500 00	
$ 538,363 99		Total, Government Agents and Assessors			502,040 00
		Carried forward			$ 853,804 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF FINANCE—*Continued.*		
		Brought forward		$ 853,804 00
		MISCELLANEOUS VOTES.		
$ 4,000 00	154.	Printing Public Accounts, Estimates, Bonds, etc. ..	$ 5,000 00	
8,000 00	155.	Interest on suitors' funds, deposits, etc.	7,500 00	
23,000 00	156.	Delinquent extra-municipal school taxes	23,000 00	
.....	157.	Local improvement taxes, Prince Rupert	5,000 00	
917 00	158.	Premium on fire insurance, Fairview Works	950 00	
25,000 00	159.	Incidentals and contingencies	20,000 00	
$ 60,917 00		Total, Miscellaneous Votes		61,450 00
$ 961,950 99		Total, Department of Finance		$ 915,254 00
	160.	DEPARTMENT OF FISHERIES.		
		Salaries:		
$ 3,720 00		Assistant to the Commissioner	$ 3,720 00	
1,600 00		Inspector of Fisheries	1,600 00	
1,020 00		Clerk and Stenographer	1,020 00	
1,500 00		Salmon Investigator	.....	
2,000 00		Overseers and Inspectors	2,000 00	
$ 9,840 00			$ 8,340 00	
		Expenses:		
3,100 00		Office supplies, etc.	3,100 00	
2,500 00		Travelling expenses, etc.	2,500 00	
2,000 00		Collection of fishery taxes	2,000 00	
.....		Salmon investigation	1,500 00	
650 00		Seton Lake Hatchery	650 00	
$ 18,090 00		Total of Vote No. 160		$ 18,090 00
	161.	DEPARTMENT OF INDUSTRIES.		
		Salaries:		
$ 3,600 00		Deputy Minister	$ 3,600 00	
1,800 00		Secretary and Investigator	1,800 00	
840 00		Clerk and Stenographer	840 00	
780 00		Stenographer	780 00	
780 00		Stenographer	.....	
2,100 00		Statistician (information and research)	.....	
$ 9,900 00			$ 7,020 00	
		Expenses:		
2,400 00		Office supplies, etc.	1,500 00	
6,000 00		Travelling expenses, etc.	2,500 00	
10,000 00		Research, appraising and investigation	2,500 00	
$ 28,300 00		Total of Vote No. 161		$ 13,520 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF LABOUR.			
	162.	GENERAL OFFICE.			
		Salaries:			
$ 3,720 00		Deputy Minister		$ 3,720 00	
1,800 00		Clerk		1,500 00	
1,500 00		Clerk		1,500 00	
840 00		Clerk and Stenographer		900 00	
780 00		Stenographer		.....	
300 00		Temporary assistance		600 00	
$ 8,940 00				$ 8,220 00	
		Expenses:			
4,500 00		Office supplies, etc.		5,000 00	
1,500 00		Travelling expenses, etc.		1,500 00	
$ 14,940 00		Total of Vote No. 162			$ 14,720 00
	163.	MINIMUM WAGE BOARD.			
		Salaries:			
$ 1,800 00		Secretary		$ 1,800 00	
780 00		Clerk and Stenographer (Vancouver Office)		780 00	
1,000 00		Inspector		1,000 00	
100 00		Temporary assistance		100 00	
$ 3,680 00				$ 3,680 00	
		Expenses:			
2,350 00		Office supplies, etc.		2,500 00	
2,000 00		Travelling expenses, etc.		2,000 00	
900 00		Rent, light, etc. (Vancouver Office)		600 00	
$ 8,930 00		Total of Vote No. 163			8,780 00
	164.	EMPLOYMENT SERVICE.			
		Cranbrook Office.			
		Salaries:			
$ 1,320 00		Clerk	$ 1,392 00		
100 00		Temporary assistance	100 00		
$ 1,420 00			$ 1,492 00		
		Expenses:			
600 00		Office supplies, etc.	598 00		
200 00		Travelling expenses, etc.	200 00		
600 00		Rent, fuel, light, etc.	600 00		
$ 2,820 00		Total, Cranbrook Office		$ 2,890 00	
		Fernie Office.			
		Salaries:			
$ 1,320 00		Clerk	$ 1,320 00		
100 00		Temporary assistance	100 00		
$ 1,420 00		*Carried forward*	$ 1,420 00	$ 2,890 00	$ 23,500 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF LABOUR—*Continued.*			
	164.	EMPLOYMENT SERVICE—*Continued.*			
		Fernie Office—Continued.			
$ 1,420 00		*Brought forward*	$ 1,420 00	$ 2,890 00	$ 23,500 00
		Expenses:			
600 00		Office supplies, etc.	600 00		
200 00		Travelling expenses, etc.	200 00		
600 00		Rent, fuel, light, etc.	600 00		
$ 2,820 00		Total, Fernie Office		2,820 00	
		Kamloops Office.			
		Salaries:			
$ 1,320 00		Clerk	$ 1,320 00		
100 00		Temporary assistance	100 00		
$ 1,420 00			$ 1,420 00		
		Expenses:			
600 00		Office supplies, etc.	600 00		
200 00		Travelling expenses, etc.	100 00		
600 00		Rent, fuel, light, etc.	600 00		
$ 2,820 00		Total, Kamloops Office		2,720 00	
		Nanaimo Office.			
		Salaries:			
$ 1,320 00		Clerk	$ 1,320 00		
100 00		Temporary assistance	100 00		
$ 1,420 00			$ 1,420 00		
		Expenses:			
600 00		Office supplies, etc.	600 00		
50 00		Travelling expenses, etc.	50 00		
600 00		Rent, fuel, light, etc.	600 00		
$ 2,670 00		Total, Nanaimo Office		2,670 00	
		Nelson Office.			
		Salaries:			
$ 1,500 00		Clerk	$ 1,500 00		
1,320 00		Clerk	1,392 00		
$ 2,820 00			$ 2,892 00		
		Expenses:			
850 00		Office supplies, etc.	848 00		
500 00		Travelling expenses, etc.	500 00		
400 00		Rent, fuel, light, etc.	600 00		
$ 4,570 00		Total, Nelson Office		4,840 00	
		Carried forward		$ 15,940 00	$ 23,500 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF LABOUR—*Continued.*			
	164.	EMPLOYMENT SERVICE—*Continued.*			
		Brought forward	$ 15,940 00	$ 23,500 00	
		New Westminster Office.			
		Salaries:			
$ 1,320 00		Clerk	$ 1,392 00		
100 00		Temporary assistance	100 00		
$ 1,420 00			$ 1,492 00		
		Expenses:			
600 00		Office supplies, etc.	598 00		
50 00		Travelling expenses, etc.	50 00		
500 00		Rent, fuel, light, etc.	500 00		
$ 2,570 00		Total, New Westminster Office		2,640 00	
		Prince George Office.			
		(Opened, 1921–22.)			
.....		Salaries:			
.....		Clerk	$ 1,440 00		
.....		Temporary assistance	100 00		
.....			$ 1,540 00		
.....		Expenses:			
.....		Office supplies, etc.	600 00		
.....		Travelling expenses, etc.	200 00		
.....		Rent, fuel, light, etc.	600 00		
.....		Total, Prince George Office		2,940 00	
		Prince Rupert Office.			
		Salaries:			
$ 1,500 00		Clerk	$ 1,500 00		
200 00		Temporary assistance	100 00		
$ 1,700 00			$ 1,600 00		
		Expenses:			
600 00		Office supplies, etc.	600 00		
200 00		Travelling expenses, etc.	200 00		
600 00		Rent, fuel, light, etc.	600 00		
$ 3,100 00		Total, Prince Rupert Office		3,000 00	
		Vancouver Office.			
		Salaries:			
$ 2,700 00		Provincial Superintendent	$ 2,700 00		
2,160 00		Superintendent (Vancouver)	2,160 00		
1,680 00		Assistant Superintendent (Vancouver)	1,680 00		
1,500 00		Clerk	1,500 00		
780 00		Clerk and Stenographer	900 00		
$ 8,820 00		*Carried forward*	$ 8,940 00	$ 24,520 00	$ 23,500 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF LABOUR—*Continued.*			
	164.	EMPLOYMENT SERVICE—*Continued.*			
		Vancouver Office—Continued.			
$ 8,820 00		*Brought forward*	$ 8,940 00	$ 24,520 00	$ 23,500 00
		Salaries—*Continued.*			
1,200 00		Chief Clerk (Women's Department)..	1,200 00		
780 00		Clerk and Stenographer	900 00		
8,640 00		Six Clerks @ $1,440	8,640 00		
2,640 00		Two Clerks @ 1,392	2,784 00		
1,320 00		Clerk	1,320 00		
900 00		Clerk	960 00		
780 00		Clerk	780 00		
1,000 00		Temporary assistance	1,000 00		
$ 26,080 00			$ 26,524 00		
		Expenses:			
$ 4,500 00		Office supplies, etc.	5,476 00		
1,500 00		Travelling expenses, etc.	1,500 00		
5,100 00		Rent, fuel, light, etc.	5,500 00		
$ 37,180 00		Total, Vancouver Office		39,000 00	
		Vernon Office.			
		Salaries:			
$ 1,320 00		Clerk	$ 1,392 00		
100 00		Temporary assistance	100 00		
$ 1,420 00			$ 1,492 00		
		Expenses:			
600 00		Office supplies, etc.	598 00		
200 00		Travelling expenses, etc.	100 00		
600 00		Rent, fuel, light, etc.	600 00		
$ 2,820 00		Total, Vernon Office		2,790 00	
		Victoria Office.			
		Salaries:			
$ 1,620 00		Superintendent	$ 1,620 00		
1,200 00		Chief Clerk (Women's Department)..	1,200 00		
1,440 00		Clerk	1,440 00		
840 00		Clerk and Stenographer	840 00		
500 00		Temporary assistance	300 00		
$ 5,600 00			$ 5,400 00		
		Expenses:			
1,800 00		Office supplies, etc.	1,600 00		
500 00		Travelling expenses, etc.	300 00		
1,200 00		Rent, fuel, light, etc.	1,200 00		
$ 9,100 00		Total, Victoria Office		8,500 00	
		Carried forward		$ 74,810 00	$ 23,500 00

Estimates, 1921-22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922-23.
		DEPARTMENT OF LABOUR—*Continued.*		
	164.	EMPLOYMENT SERVICE—*Continued.*		
		Brought forward	$ 74,810 00	$ 23,500 00
		Sub-agencies.		
$ 2,400 00		For the purpose of establishing and maintaining sub-agencies at other points (salaries and expenses)	$ 1,200 00	
$ 2,400 00		Total, Sub-agencies	1,200 00	
$ 72,870 00		Total, Employment Service, Vote No. 164		76,010 00
	165.	FACTORIES INSPECTION.		
		(Transferred from Department of Public Works.)		
		Salaries:		
$ 2,700 00		Inspector	$ 2,700 00	
2,280 00		Assistant Inspector	2,280 00	
1,300 00		Assistant Inspectress	1,300 00	
48 00		Temporary assistance	48 00	
$ 6,328 00			$ 6,328 00	
		Expenses:		
400 00		Office supplies, etc.	392 00	
2,200 00		Travelling expenses, etc.	2,200 00	
$ 8,928 00		Total of Vote No. 165		8,920 00
$ 105,668 00		Total, Department of Labour		$ 108,430 00
		DEPARTMENT OF LANDS.		
	166.	MINISTER'S OFFICE.		
		Salaries:		
$ 7,500 00		Minister of Lands	$ 7,500 00	
2,040 00		Secretary	2,040 00	
1,152 00		Clerk and Stenographer	1,152 00	
$ 10,692 00			$ 10,692 00	
		Expenses:		
750 00		Office supplies, etc.	750 00	
2,500 00		Travelling expenses	2,500 00	
$ 13,942 00		Total of Vote No. 166		$ 13,942 00
	167.	GENERAL OFFICE.		
		Salaries:		
$ 4,320 00		Deputy Minister	$ 4,320 00	
3,000 00		Assistant to Deputy Minister	3,000 00	
$ 7,320 00		*Carried forward*	$ 7,320 00	$ 13,942 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF LANDS—*Continued.*		
	167.	GENERAL OFFICE—*Continued.*		
$ 7,320 00		*Brought forward*	$ 7,320 00	$ 13,942 00
		Salaries—*Continued.*		
2,340 00		Statistician	2,340 00	
1,900 00		Chief Clerk	1,900 00	
1,620 00		Property Clerk	1,620 00	
1,720 00		Clerk	1,720 00	
1,500 00		Clerk	1,500 00	
5,808 00		Four Clerks @ $1,452	5,808 00	
1,380 00		Clerk	1,380 00	
2,640 00		Two Clerks @ $1,320	2,640 00	
1,272 00		Clerk	1,272 00	
1,200 00		Clerk	1,200 00	
870 00		Clerk	870 00	
960 00		Clerk-Stenographer	960 00	
870 00		Stenographer	870 00	
840 00		Stenographer	840 00	
900 00		Junior Clerk	900 00	
540 00		Junior Clerk	660 00	
540 00		Junior Clerk	480 00	
$ 34,220 00		Total of Vote No. 167		34,280 00
	168.	LANDS BRANCH—GENERAL ADMINISTRATION.		
		Salaries:		
$ 3,360 00		Superintendent of Lands	$ 3,360 00	
2,220 00		Assistant Superintendent and Chief Clerk	2,220 00	
2,020 00		Inspector of Lands	2,020 00	
1,900 00		Assistant Chief Clerk	1,900 00	
1,900 00		Accountant	1,900 00	
1,900 00		Crown Grant Clerk	1,900 00	
1,900 00		Status Clerk	1,900 00	
1,800 00		Clerk	1,800 00	
5,160 00		Three Clerks @ $1,720	5,160 00	
1,632 00		Clerk	1,632 00	
1,500 00		Clerk	1,500 00	
1,452 00		Clerk	1,452 00	
1,440 00		Clerk	1,440 00	
1,500 00		Clerk	1,320 00	
1,272 00		Clerk	1,272 00	
1,200 00		Clerk	1,200 00	
1,080 00		Clerk	1,080 00	
600 00		Clerk	900 00	
870 00		Clerk	870 00	
1,080 00		Stenographer	1,080 00	
930 00		Stenographer	930 00	
900 00		Stenographer	930 00	
780 00		Stenographer	780 00	
$ 38,396 00		*Carried forward*	$ 38,546 00	$ 48,222 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF LANDS—*Continued.*		
	168.	LANDS BRANCH—GENERAL ADMINISTRATION—*Continued.*		
$ 38,396 00		*Brought forward*	$ 38,546 00	$ 48,222 00
		Salaries—*Continued.*		
		Immigration Branch and B.C. Soldiers' Settlement.		
3,000 00		Superintendent	3,000 00	
1,080 00		Clerk-Stenographer	1,080 00	
840 00		Stenographer	.....	
$ 43,316 00		Total of Vote No. 168		42,626 00
	169.	SURVEY BRANCH.		
		Salaries:		
		General.		
$ 3,600 00		Surveyor-General	$ 3,600 00	
1,600 00		Accountant	1,600 00	
1,560 00		Clerk	1,560 00	
1,500 00		Photostat Operator	1,500 00	
1,080 00		Assistant Photosat Operator	1,080 00	
1,020 00		Blue-print Operator	1,200 00	
1,200 00		Clerk	1,200 00	
900 00		Stenographer	840 00	
780 00		Stenographer	780 00	
480 00		Messenger	600 00	
		Surveys Division.		
2,640 00		Chief Draughtsman	2,640 00	
2,400 00		Draughtsman	2,400 00	
7,200 00		Four Draughtsmen @ $1,800	7,200 00	
6,960 00		Four Draughtsmen @ $1,740	6,960 00	
1,720 00		Draughtsman	1,720 00	
1,680 00		Draughtsman	1,680 00	
1,540 00		Draughtsman	1,540 00	
1,500 00		Draughtsman	1,500 00	
1,380 00		Draughtsman	1,380 00	
1,272 00		Draughtsman	1,200 00	
420 00		Apprentice Draughtsman	480 00	
		Geographic Division.		
2,760 00		Chief Geographer	2,760 00	
2,220 00		Registrar	2,220 00	
4,040 00		Two Draughtsmen @ $2,020	4,040 00	
3,600 00		Two Draughtsmen @ $1,800	3,600 00	
1,620 00		Draughtsman	1,720 00	
3,240 00		Two Draughtsmen @ $1,620	3,240 00	
1,680 00		Draughtsman	.....	
$ 61,592 00		*Carried forward*	$ 60,240 00	$ 90,848 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF LANDS—*Continued.*		
	169.	SURVEY BRANCH—*Continued.*		
$ 61,592 00		*Brought forward*	$ 60,240 00	$ 90,848 00
		Salaries—*Continued.*		
		Geographic Division—Continued.		
(3) 4,500 00		Draughtsman	1,500 00	
1,440 00		Draughtsman	1,440 00	
.....		Draughtsman	1,332 00	
1,300 00		Draughtsman	1,300 00	
1,212 00		Draughtsman	.....	
1,800 00		Map-mounter	1,800 00	
420 00		Apprentice Draughtsman	480 00	
480 00		Apprentice Draughtsman	540 00	
$ 72,744 00		Total of Vote No. 169		68,632 00
	170.	WATER RIGHTS BRANCH.		
		Salaries:		
$ 5,000 00		Comptroller of Water Rights and Consulting Engineer	$ 5,000 00	
2,760 00		Assistant to Comptroller	2,760 00	
3,000 00		Chairman, Board of Investigation	3,000 00	
3,000 00		Member, Board of Investigation	3,000 00	
2,520 00		Law Clerk	2,520 00	
3,600 00		Superintendent of Construction	3,600 00	
3,000 00		Chief Engineer	3,000 00	
2,400 00		Engineer	2,400 00	
2,280 00		Office Engineer	2,280 00	
3,840 00		Two Engineers @ $1,920	3,840 00	
1,800 00		Engineer	1,800 00	
2,080 00		Engineer	2,080 00	
1,900 00		Senior Draughtsman	1,900 00	
1,800 00		Draughtsman	1,800 00	
1,780 00		Draughtsman	1,780 00	
1,720 00		Draughtsman	1,720 00	
3,320 00		Two Draughtsmen @ $1,660	3,320 00	
1,600 00		Draughtsman	1,600 00	
3,000 00		Two Draughtsmen @ $1,500	3,000 00	
1,300 00		Draughtsman	1,300 00	
1,900 00		Chief Clerk	1,900 00	
6,640 00		Four Clerks @ $1,660	6,640 00	
1,600 00		Clerk	1,600 00	
1,500 00		Clerk	1,500 00	
1,080 00		Clerk	.....	
1,452 00		Clerk	1,452 00	
900 00		Stenographer	900 00	
840 00		Stenographer	840 00	
1,560 00		Two Stenographers @ $780	1,560 00	
$ 69,172 00		*Carried forward*	$ 68,092 00	$ 159,480 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF LANDS—*Continued.*		
	170.	WATER RIGHTS BRANCH—*Continued.*		
$ 69,172 00		*Brought forward*	$ 68,092 00	$ 159,480 00
		Salaries—*Continued.*		
660 00		Junior Clerk	720 00	
.....		Junior Clerk	660 00	
360 00		Messenger	480 00	
2,760 00		District Engineer, Kelowna	2,760 00	
1,900 00		Assistant Engineer, Kelowna	1,900 00	
840 00		Stenographer, Kelowna	840 00	
2,760 00		District Engineer, Nelson	2,760 00	
1,800 00		Assistant Engineer, Nelson	1,800 00	
840 00		Stenographer, Nelson	840 00	
2,760 00		District Engineer, Kamloops	2,760 00	
1,720 00		Assistant Engineer, Kamloops	1,720 00	
2,520 00		District Engineer, Cranbrook	2,520 00	
$ 88,092 00		Total of Vote No. 170		87,852 00
	171.	FOREST BRANCH.		
		Salaries:		
4,020 00		Chief Forester	$ 4,020 00	
3,600 00		Assistant Chief Forester	3,600 00	
3,000 00		Forester	3,000 00	
2,640 00		Forester	2,700 00	
2,700 00		Assistant Forester	2,400 00	
2,160 00		Assistant Forester	2,160 00	
2,220 00		Assistant Forester	.....	
3,800 00		Two Junior Foresters @ $1,900	3,800 00	
.....		Three Junior Foresters @ $1,800	5,400 00	
3,120 00		Lumber Trade Commissioner	3,120 00	
2,340 00		Assistant Lumber Trade Commissioner	2,340 00	
2,520 00		Railway Inspector	2,520 00	
2,100 00		Assistant Supervisor of Scalers	2,100 00	
2,520 00		Royalty Inspector	2,520 00	
2,400 00		Status Clerk	2,400 00	
2,340 00		Chief Clerk	2,340 00	
2,220 00		Accountant	2,220 00	
1,720 00		Assistant Accountant	1,800 00	
2,000 00		Assistant Royalty Inspector	2,000 00	
.....		Mechanical Inspector	1,980 00	
1,900 00		Chief Draughtsman	1,900 00	
1,800 00		Draughtsman	1,800 00	
1,620 00		Draughtsman	1,680 00	
1,620 00		Draughtsman	1,680 00	
1,500 00		Draughtsman	1,560 00	
1,440 00		Draughtsman	1,500 00	
1,152 00		Draughtsman	1,380 00	
1,660 00		Draughtsman	.....	
$ 60,112 00		*Carried forward*	$ 63,920 00	$ 247,332 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF LANDS—*Continued.*		
	171.	FOREST BRANCH—*Continued.*		
$ 60,112 00		*Brought forward*	$ 63,920 00	$ 247,332 00
		Salaries—*Continued.*		
3,800 00		Two Clerks @ $1,900	3,800 00	
3,440 00		Two Clerks @ $1,720	3,440 00	
1,660 00		Clerk	1,660 00	
1,660 00		Clerk	1,660 00	
1,600 00		Clerk	1,600 00	
1,600 00		Clerk	1,600 00	
1,540 00		Clerk	1,540 00	
1,500 00		Clerk	1,500 00	
1,500 00		Clerk	1,500 00	
1,500 00		Clerk	1,500 00	
1,452 00		Clerk	1,560 00	
1,660 00		Clerk	1,320 00	
1,500 00		Clerk	1,500 00	
1,452 00		Clerk	1,452 00	
1,152 00		Clerk	1,152 00	
1,080 00		Clerk	1,080 00	
900 00		Clerk	900 00	
1,080 00		Stenographer	1,080 00	
1,020 00		Stenographer	1,020 00	
960 00		Stenographer	960 00	
960 00		Stenographer	960 00	
840 00		Stenographer	840 00	
1,680 00		Two Stenographers @ $840	1,680 00	
780 00		Stenographer	780 00	
840 00		Stenographer	840 00	
420 00		Messenger	540 00	
420 00		Messenger	480 00	
		Southern Coast, Vancouver.		
3,600 00		Forester	3,600 00	
2,400 00		Assistant Forester	2,520 00	
2,400 00		Assistant Forester	2,220 00	
1,900 00		Junior Forester	1,900 00	
.....		Fire Inspector	2,160 00	
2,080 00		Chief Clerk	2,080 00	
1,500 00		Draughtsman	1,500 00	
1,600 00		Clerk	1,700 00	
1,500 00		Clerk	1,500 00	
1,452 00		Clerk	1,452 00	
.....		Clerk	1,320 00	
960 00		Clerk	960 00	
840 00		Clerk	840 00	
720 00		Junior Clerk	780 00	
900 00		Stenographer	900 00	
870 00		Stenographer	870 00	
$ 120,830 00		*Carried forward*	$128,166 00	$ 247,332 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23,
		DEPARTMENT OF LANDS—*Continued.*		
	171.	FOREST BRANCH—*Continued.*		
$ 120,830 00		*Brought forward*	$128,166 00	$ 247,332 00
		Salaries—*Continued.*		
		Southern Coast, Vancouver—Continued.		
840 00		Stenographer	840 00	
780 00		Stenographer	780 00	
780 00		Stenographer	780 00	
2,280 00		Supervisor	2,280 00	
2,160 00		Supervisor	2,100 00	
2,160 00		Supervisor	2,160 00	
2,100 00		Supervisor	2,100 00	
3,000 00		Two Supervisor's Assistants @ $1,500	3,000 00	
1,800 00		Two Supervisor's Assistants @ $1,500	3,000 00	
7,600 00		Four Rangers @ $1,900	7,600 00	
9,000 00		Five Rangers @ $1,800	9,000 00	
11,760 00		Seven Rangers @ $1,800	12,600 00	
1,680 00		Ranger	1,680 00	
3,000 00		Two Rangers @ $1,680	3,360 00	
3,000 00		Ranger	1,500 00	
6,000 00		Four Wireless Telephone Operators @ $1,500	6,000 00	
1,380 00		Telephone Lineman	1,380 00	
1,260 00		Export Patrolman	1,800 00	
3,120 00		Supervisor of Scalers	3,300 00	
2,520 00		Assistant Supervisor of Scalers	2,700 00	
22,320 00		Thirteen Scalers @ $2,400	31,200 00	
.....		Five Scalers @ $2,100	10,500 00	
.....		Two Scalers @ $2,040	4,080 00	
.....		One Scaler @ $1,800	1,800 00	
1,900 00		Recorder of Scaling	1,900 00	
1,020 00		Assistant Recorder of Scaling	960 00	
900 00		Clerk	900 00	
900 00		Clerk	900 00	
840 00		Junior Clerk	840 00	
840 00		Stenographer	780 00	
.....		Foreman, Thurston Bay	1,920 00	
.....		Mechanic, Thurston Bay	1,800 00	
.....		Boat-builder, Thurston Bay	1,800 00	
		Southern Interior.		
		(a.) Vernon.		
2,460 00		District Forester	2,460 00	
2,020 00		Assistant District Forester	2,020 00	
1,500 00		Clerk	1,500 00	
1,900 00		Ranger	1,900 00	
$ 223,650 00		*Carried forward*	$263,386 00	$ 247,332 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF LANDS—*Continued.*		
	171.	FOREST BRANCH—*Continued.*		
$ 223,650 00		*Brought forward*	$263,386 00	$ 247,332 00
		Salaries—*Continued.*		
		Southern Interior—Continued.		
		(a.) Vernon—Continued.		
1,680 00		Ranger	1,800 00	
3,000 00		Two Rangers @ $1,680	3,360 00	
900 00		Stenographer	900 00	
		(b.) Nelson.		
2,520 00		District Forester	2,400 00	
2,020 00		Assistant District Forester	.....	
1,800 00		Junior Forester	1,800 00	
1,152 00		Clerk	1,152 00	
1,900 00		Ranger	1,900 00	
3,800 00		Two Rangers @ $1,900	3,800 00	
1,680 00		Ranger	1,800 00	
1,500 00		Ranger	1,680 00	
.....		Ranger	1,680 00	
1,680 00		Ranger	.....	
900 00		Stenographer	840 00	
		(c.) Cranbrook.		
2,400 00		District Forester	2,400 00	
2,100 00		Assistant District Forester	2,020 00	
1,500 00		Draughtsman	1,500 00	
1,152 00		Clerk	1,152 00	
3,800 00		Two Rangers @ $1,900	3,800 00	
1,680 00		Ranger	1,800 00	
3,360 00		Two Rangers @ $1,800	3,600 00	
1,500 00		Ranger	.....	
		Northern Interior, Headquarters.		
3,000 00		Forester	3,000 00	
1,600 00		Draughtsman	1,600 00	
1,500 00		Clerk	1,500 00	
1,080 00		Clerk-Stenographer	960 00	
		(a.) Western.		
1,920 00		Supervisor	1,920 00	
1,800 00		Ranger	1,800 00	
1,500 00		Ranger	1,680 00	
1,500 00		Ranger	1,500 00	
		(b.) Eastern.		
1,920 00		Supervisor	1,920 00	
1,800 00		Ranger	1,800 00	
$ 283,294 00		*Carried forward*	$320,450 00	$ 247,332 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF LANDS—*Continued.*		
	171.	FOREST BRANCH—*Continued.*		
$ 283,294 00		*Brought forward*	$320,450 00	$ 247,332 00
		Salaries—*Continued.*		
		Northern Interior, Headquarters—Continued.		
		(b.) Eastern—Continued.		
1,680 00		Ranger	1,800 00	
1,500 00		Ranger	1,680 00	
		(c.) Cariboo.		
2,400 00		Acting District Forester	2,400 00	
1,920 00		Assistant District Forester	.....	
1,152 00		Clerk	1,440 00	
1,500 00		Ranger	1,680 00	
1,500 00		Ranger	1,680 00	
1,500 00		Ranger	1,500 00	
		(d.) Kamloops.		
2,400 00		District Forester	2,400 00	
2,020 00		Assistant District Forester	2,020 00	
1,500 00		Clerk	1,320 00	
1,800 00		Ranger	1,800 00	
1,800 00		Ranger	1,800 00	
1,680 00		Ranger	1,800 00	
1,500 00		Ranger	.....	
		Prince Rupert, Headquarters.		
3,000 00		Forester	3,000 00	
.....		Assistant District Forester	2,400 00	
1,900 00		Junior Forester	1,900 00	
1,600 00		Clerk	1,800 00	
1,200 00		Clerk-Stenographer	1,080 00	
1,080 00		Stenographer	900 00	
.....		Clerk	1,320 00	
		(a.) Coast.		
2,160 00		Supervisor	.....	
1,500 00		Supervisor's Assistant	1,500 00	
1,680 00		Ranger	1,800 00	
1,680 00		Ranger	1,800 00	
1,500 00		Ranger	1,680 00	
1,800 00		Ranger	1,500 00	
.....		Launch Captain	1,440 00	
1,800 00		Scaler	2,400 00	
.....		Scaler	2,100 00	
900 00		Stenographer	960 00	
$ 330,946 00		*Carried forward*	$371,350 00	$ 247,332 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF LANDS—*Continued.*			
	171.	FOREST BRANCH—*Continued.*			
$ 330,946 00		*Brought forward*	$371,350 00		$ 247,332 00
		Salaries—*Continued.*			
		Prince Rupert, Headquarters—Continued.			
		(b.) Hazelton.			
2,100 00		Supervisor	2,100 00		
1,500 00		Supervisor's Assistant	1,500 00		
1,680 00		Ranger	1,800 00		
1,500 00		Ranger	1,680 00		
				$378,430 00	
		Grazing.			
3,720 00		Grazing Commissioner	$ 3,720 00		
1,920 00		Assistant Grazing Commissioner	1,920 00		
900 00		Stenographer	900 00		
				6,540 00	
		Toronto Office.			
3,000 00		Lumber Trade Commissioner	3,000 00		
1,200 00		Clerk	1,320 00		
				4,320 00	
$ 348,466 00				$389,290 00	
$ 80,940 00		*Less* chargeable to Forest Protection Fund	$ 88,990 00		
36,220 00		*Less* chargeable to Scaling Fund	65,920 00		
10,620 00		*Less* chargeable to Lumber Trade Extension	10,740 00		
.....		*Less* chargeable to Maintenance of Launches	5,520 00		
$ 127,780 00				171,170 00	
$ 220,686 00		Total of Vote No. 171			218,120 00
		GENERAL.			
$ 25,000 00	172.	Temporary assistance		$ 25,000 00	
$ 25,000 00		Total Vote No. 172			25,000 00
	173.	Expenses (including General Office and Branches):			
$ 55,000 00		Office supplies, etc.		$ 50,000 00	
		Travelling expenses:			
3,500 00		Lands Branch	$ 3,500 00		
500 00		Survey Branch	500 00		
$ 59,000 00		*Carried forward*	$ 4,000 00	$ 50,000 00	$ 490,452 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF LANDS—*Continued.*			
		GENERAL—*Continued.*			
$ 59,000 00		*Brought forward*	$ 4,000 00	$ 50,000 00	$ 490,452 00
	173.	Expenses (including General Office and Branches)—*Continued.*			
		Travelling expenses—*Continued.*			
10,000 00		Water Rights Branch	10,000 00		
46,500 00		Forest Branch	46,500 00		
				60,500 00	
		Construction, purchase, maintenance of launches			
70,000 00		and autos, including subsistence of crews, etc.		65,000 00	
4,500 00		Rent and upkeep of District Offices		4,500 00	
3,750 00		Wireless telephones, rental of instruments, etc...		3,750 00	
18,450 00		Incidentals		16,250 00	
$ 212,200 00		Total of Vote No. 173			200,000 00
		MISCELLANEOUS VOTES.			
$ 300,000 00	174.	Forest Protection Fund		$300,000 00	
30,000 00	175.	Lumber trade extension		20,000 00	
75,000 00	176.	Reconnaissance: growth studies and cruising		30,000 00	
10,000 00	177.	Insect damage: investigation and control		10,000 00	
6,000 00	178.	Grazing: range improvement		6,000 00	
40,000 00	179.	Water surveys		30,000 00	
7,500 00	180.	British Columbia Hydrometric Survey		7,500 00	
700 00	181.	Rainfall and climatic statistics		700 00	
500 00	182.	Irrigation Convention		500 00	
200,000 00	183.	Land surveys		135,000 00	
30,000 00	184.	Photo-topographical surveys		28,000 00	
12,000 00	185.	Lithograph maps		10,000 00	
10,000 00	186.	Publicity		10,000 00	
10,000 00	187.	General investigations		10,000 00	
10,000 00	188.	Contingencies		10,000 00	
60,000 00	189.	Oil investigations		50,000 00	
		... Municipal taxes under "Townsite Proportionate			
250,000 00		Allotment Act, 1918"		.....	
10,000 00	190.	"Soldiers' Land Act, 1918"		10,000 00	
2,000 00	191.	Refunds under "Land Act"		1,000 00	
	192.	Refunds under "Revenue Act Amendment Act,			
2,000 00		1920"		3,000 00	
$1,065,700 00		Total, Miscellaneous Votes			671,700 00
$1,775,900 00		Total, Department of Lands			$1,362,152 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF MINES.		
	193.	MINISTER'S OFFICE.		
		Salaries:		
$ 7,500 00		Minister of Mines	$ 7,500 00	
2,040 00		Secretary	2,040 00	
$ 9,540 00			$ 9,540 00	
		Expenses:		
1,025 00		Office supplies, etc.	1,025 00	
1,500 00		Travelling expenses, etc.	1,500 00	
$ 12,065 00		Total of Vote No. 193		$ 12,065 00
	194.	GENERAL OFFICE.		
		Salaries:		
$ 4,000 00		Deputy Minister	$ 4,000 00	
2,400 00		Chief Clerk and Gold Commissioner	2,400 00	
1,500 00		Clerk	1,500 00	
960 00		Clerk and Stenographer	960 00	
780 00		Clerk	780 00	
$ 9,640 00			$ 9,640 00	
		Expenses:		
2,300 00		Office supplies, etc.	2,300 00	
150 00		Travelling expenses, etc.	150 00	
8,000 00		Printing, binding, and advertising, etc.	6,000 00	
$ 20,090 00		Total of Vote No. 194		18,090 00
	195.	MINES INSPECTION BRANCH.		
		Salaries:		
$ 4,000 00		Chief Inspector of Mines	$ 4,000 00	
2,820 00		Inspector	2,820 00	
2,700 00		Inspector	2,700 00	
2,640 00		Inspector	2,640 00	
2,280 00		Inspector	2,280 00	
4,200 00		Two Inspectors @ $2,100	4,200 00	
4,800 00		Two Inspectors and Examiners of Mine Officials and Miners @ $2,400	4,800 00	
2,100 00		Inspector	2,100 00	
1,980 00		Inspector	1,980 00	
780 00		Stenographer	780 00	
$ 28,300 00			$ 28,300 00	
		Expenses:		
2,000 00		Office supplies, etc.	2,000 00	
10,000 00		Travelling expenses, etc.	10,000 00	
$ 40,300 00		Total of Vote No. 195		40,300 00
		Carried forward		$ 70,455 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF MINES—*Continued.*		
		Brought forward		$ 70,455 00
	196.	BUREAU OF MINES.		
		Salaries:		
$ 4,240 00		Provincial Mineralogist and Assayer	$ 4,240 00	
1,780 00		Clerk	1,780 00	
1,300 00		Clerk	1,300 00	
2,640 00		Assistant Assayer and Public Analyst	2,640 00	
1,560 00		Laboratory Assistant	1,560 00	
1,260 00		Caretaker	1,260 00	
$ 12,780 00			$ 12,780 00	
		Expenses:		
3,500 00		Office supplies, etc.	3,500 00	
250 00		Travelling expenses, etc.	250 00	
$ 16,530 00		Total of Vote No. 196		16,530 00
	197.	MINE-RESCUE AND TRAINING STATIONS.		
		Salaries:		
$ 1,440 00		Instructor and Caretaker	$ 1,440 00	
2,760 00		Two Instructors and Caretakers @ $1,380	2,760 00	
720 00		Instructor and Caretaker	720 00	
$ 4,920 00			$ 4,920 00	
		Expenses:		
125 00		Office supplies, etc.	125 00	
8,000 00		Apparatus and miscellaneous	8,000 00	
600 00		Travelling expenses, etc.	600 00	
$ 13,645 00		Total of Vote No. 197		13,645 00
		MISCELLANEOUS VOTES.		
$ 1,000 00	198.	Grant to Western Branch, Canadian Mining Institute	$ 1,000 00	
2,500 00	199.	Grant to B.C. Chamber of Mines (conditional)	2,500 00	
2,000 00	200.	Grants to Mining Conventions	2,000 00	
50,000 00	201.	"Mines Development Act," Supplementary	50,000 00	
50,000 00	...	"Mineral Survey and Development Act," Supplementary	.....	
10,000 00	202.	Subsidy *re* explosives to assist *bona-fide* mineral prospectors	10,000 00	
.....	203.	Incidentals and contingencies	2,500 00	
$ 115,500 00		Total, Miscellaneous Votes		68,000 00
		STATUTORY.		
$ 34,950 36	203A.	"Mines Development Act, 1916"	$ 34,950 36	
54,424 02	203B.	"Mineral Survey and Development Act, 1917"	54,424 02	
$ 89,374 38				89,374 38
$ 307,504 38		Total, Department of Mines		$ 258,004 38

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE PROVINCIAL SECRETARY.		
	204.	MINISTER'S OFFICE.		
		Salaries:		
$ 7,500 00		Provincial Secretary	$ 7,500 00	
1,260 00		Secretary	2,040 00	
.....		Temporary assistance	500 00	
$ 8,760 00			$ 10,040 00	
		Expenses:		
800 00		Office supplies, etc.	800 00	
1,500 00		Travelling expenses, etc.	1,500 00	
$ 11,060 00		Total of Vote No. 204		$ 12,340 00
	205.	GENERAL OFFICE.		
		Salaries:		
$ 3,720 00		Deputy Provincial Secretary	$ 3,720 00	
2,340 00		Chief Clerk	2,340 00	
1,780 00		Postal Clerk	1,780 00	
900 00		Clerk	1,080 00	
780 00		Stenographer	780 00	
900 00		Junior Clerk	900 00	
780 00		Assistant Postal Clerk and Stenographer	780 00	
350 00		Temporary assistance	500 00	
$ 11,550 00			$ 11,880 00	
		Expenses:		
2,500 00		Office supplies, etc.	2,500 00	
1,500 00		Travelling expenses, etc.	1,500 00	
$ 15,550 00		Total of Vote No. 205		15,880 00
	206.	PROVINCIAL BOARD OF HEALTH.		
		Salaries:		
$ 4,320 00		Secretary	$ 4,320 00	
3,600 00		Hospital Inspector and Travelling Medical Health Officer	3,600 00	
2,400 00		Chief Sanitary Inspector	2,400 00	
1,500 00		Clerk	1,500 00	
1,020 00		Clerk	1,020 00	
780 00		Clerk	780 00	
1,680 00		Deputy Registrar, Births, Deaths, and Marriages	1,680 00	
1,200 00		Clerk	1,200 00	
960 00		Clerk	960 00	
720 00		Clerk	720 00	
780 00		Stenographer	780 00	
500 00		Temporary assistance	500 00	
$ 19,460 00			$ 19,460 00	
		Expenses:		
6,650 00		Office supplies, etc.	6,650 00	
6,500 00		Travelling expenses, etc.	6,500 00	
$ 32,610 00		*Carried forward*	$ 32,610 00	$ 28,220 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	206.	PROVINCIAL BOARD OF HEALTH—*Continued.*		
$ 32,610 00		*Brought forward*	$ 32,610 00	$ 28,220 00
		Expenses—*Continued.*		
8,000 00		Medical inspection of schools	8,000 00	
12,000 00		Public-health nursing	12,000 00	
38,000 00		Incidentals and emergencies	53,000 00	
$ 90,610 00		Total of Vote No. 206		105,610 00
	207.	PROVINCIAL LIBRARY AND ARCHIVES.		
$ 2,400 00		Librarian and Archivist	$ 2,400 00	
1,540 00		Legislative Reference Clerk	1,540 00	
1,720 00		Chief Cataloguer	1,720 00	
1,180 00		First Assistant Cataloguer	1,180 00	
1,020 00		Reference Clerk	1,020 00	
870 00		Assistant Reference Clerk	870 00	
870 00		Archives Indexer	870 00	
870 00		Stenographer and Book-keeper	780 00	
600 00		Apprentice Clerk	600 00	
500 00		Temporary assistance	500 00	
$ 11,570 00			$ 11,480 00	
		Expenses:		
8,000 00		Office supplies, books, subscriptions, etc.	8,000 00	
$ 19,570 00		Total of Vote No. 207		19,480 00
	208.	"PUBLIC LIBRARIES ACT."		
		Salaries:		
$ 1,740 00		Superintendent	$ 1,740 00	
960 00		Assistant Superintendent	1,200 00	
$ 2,700 00			$ 2,940 00	
		Expenses:		
1,420 00		Office supplies, etc.	1,095 00	
2,500 00		Books and periodicals	2,500 00	
3,000 00		Books and periodicals for schools and salary of Supervisor	.....	
800 00		Freight and express	800 00	
1,000 00		Grants in aid of libraries	1,000 00	
1,300 00		Travelling expenses, etc.	1,300 00	
300 00		Incidentals and contingencies	300 00	
$ 13,020 00		Total of Vote No. 208		9,935 00
	209.	PROVINCIAL MUSEUM.		
		Salaries:		
$ 2,400 00		Director	$ 2,400 00	
900 00		Recorder	900 00	
$ 3,300 00		*Carried forward*	$ 3,300 00	$ 163,245 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
	209.	PROVINCIAL MUSEUM—*Continued.*			
$ 3,300 00		*Brought forward*		$ 3,300 00	$ 163,245 00
		Salaries—*Continued.*			
1,540 00		Assistant Biologist		1,540 00	
1,320 00		Attendant		1,320 00	
1,200 00		Attendant		1,200 00	
600 00		Temporary assistance		600 00	
$ 7,960 00				$ 7,960 00	
		Expenses:			
1,125 00		Office supplies, etc.		1,125 00	
1,583 00		Incidentals and contingencies		1,583 00	
$ 10,668 00		Total of Vote No. 209			10,668 00
		MENTAL HOSPITALS.			
	210.	NEW WESTMINSTER.			
		Salaries:			
$ 3,600 00		Medical Superintendent of Institutions	$ 3,600 00		
.....		Assistant Medical Superintendent....	2,400 00		
2,220 00		Physician	2,100 00		
1,800 00		Physician	.....		
1,684 00		Receiving Clerk	1,684 00		
1,020 00		Laboratory Assistant	1,080 00		
1,392 00		Clinical Clerk and Stenographer	1,320 00		
780 00		Second Stenographer	840 00		
88,424 00		Sundry employees	89,684 00		
$ 100,920 00			$102,708 00		
		Expenses:			
2,000 00		Office supplies, etc.	2,000 00		
400 00		Travelling expenses, etc.	400 00		
27,000 00		Fuel, light, water, etc.	27,000 00		
11,000 00		Maintenance and repairs of buildings, grounds, etc.	15,000 00		
10,000 00		Furniture and fixtures	8,000 00		
55,000 00		Provisions, etc.	50,000 00		
30,000 00		Uniforms and clothing	25,000 00		
2,800 00		Medical and surgical supplies	3,500 00		
7,500 00		Examinations, committals, and transportation	7,500 00		
12,000 00		Incidentals and contingencies	12,000 00		
$ 258,620 00		Total of Vote No. 210		$253,108 00	
	211.	ESSONDALE.			
		Salaries:			
$ 2,820 00		Assistant Medical Superintendent ...	$ 2,820 00		
1,920 00		Assistant Physician	1,920 00		
$ 4,740 00		*Carried forward*	$ 4,740 00	$253,108 00	$ 173,913 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
		MENTAL HOSPITALS—*Continued.*			
	211.	ESSONDALE—*Continued.*			
$ 4,740 00		*Brought forward*	$ 4,740 00	$253,108 00	$ 173,913 00
		Salaries—*Continued.*			
1,800 00		Assistant Physician	1,800 00		
2,520 00		Bursar (Institutions and Farm)	2,520 00		
1,420 00		Assistant Bursar	1,420 00		
1,392 00		Book-keeper	1,392 00		
1,332 00		Clinical Clerk and Stenographer	1,332 00		
960 00		Business Stenographer	840 00		
780 00		Junior Stenographer	840 00		
102,692 00		Sundry employees	105,860 00		
$ 117,636 00			$120,744 00		
		Expenses:			
3,000 00		Office supplies, etc.	3,000 00		
1,200 00		Travelling expenses, etc.	1,200 00		
40,000 00		Fuel, light, water, etc.	40,000 00		
12,000 00		Maintenance and repairs of buildings, grounds, etc.	12,000 00		
15,000 00		Furniture and fixtures	14,000 00		
100,000 00		Provisions, etc.	85,000 00		
20,000 00		Uniforms and clothing	18,000 00		
2,500 00		Medical and surgical supplies	2,500 00		
1,000 00		Examinations, committals, and transportation	1,000 00		
15,000 00		Incidentals and contingencies	13,000 00		
$ 327,336 00		Total of Vote No. 211		310,444 00	
	212.	COLONY FARM AND NURSERY, ESSONDALE.			
		Salaries:			
$ 2,400 00		Farm Superintendent	$ 2,520 00		
1,152 00		Book-keeper	1,200 00		
26,580 00		Sundry employees	26,520 00		
$ 30,132 00			$ 30,240 00		
		Expenses:			
500 00		Office supplies, etc.	500 00		
1,000 00		Travelling expenses, etc.	1,000 00		
5,000 00		Fuel, light, water, etc.	3,500 00		
4,500 00		Maintenance and repairs of buildings, etc.	4,500 00		
3,000 00		Provisions, etc.	3,000 00		
35,000 00		Feed for stock	35,000 00		
4,000 00		Fertilizer and seed	4,000 00		
2,400 00		Testing cows	2,400 00		
1,000 00		Implements, harness, etc.	1,000 00		
$ 86,532 00		*Carried forward*	$ 85,140 00	$563,552 00	$ 173,913 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.			Fiscal Year, 1922–23.
		DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*			
		MENTAL HOSPITALS—*Continued.*			
	212.	COLONY FARM AND NURSERY, ESSONDALE—*Continued.*			
$ 86,532 00		*Brought forward*	$ 85,140 00	$563,552 00	$ 173,913 00
		Expenses—*Continued.*			
1,000 00		Blacksmith supplies	1,000 00		
1,000 00		Farm roads and bridges	1,000 00		
8,000 00		Incidentals and contingencies	9,000 00		
$ 96,532 00		Total of Vote No. 212		96,140 00	
	213.	MENTAL HOME (SAANICH), COLQUITZ.			
		Salaries:			
$ 1,440 00		Supervisor	$ 1,440 00		
1,200 00		Visiting Physician	1,200 00		
180 00		Visiting Dentist	180 00		
13,888 00		Sundry employees	14,704 00		
$ 16,708 00			$ 17,524 00		
		Expenses:			
250 00		Office supplies, etc.	250 00		
300 00		Travelling expenses, etc.	300 00		
5,300 00		Fuel, light, water, etc.	5,300 00		
2,500 00		Maintenance and repairs of buildings, grounds, etc.	5,000 00		
1,500 00		Furniture and fixtures	1,200 00		
14,000 00		Provisions, etc.	14,000 00		
3,000 00		Uniforms and clothing	2,500 00		
500 00		Medical and surgical supplies	500 00		
4,000 00		Incidentals and contingencies	5,000 00		
$ 48,058 00		Total of Vote No. 213		51,574 00	
$ 730,546 00		Total, Mental Hospitals			711,266 00
	214.	PROVINCIAL HOME, KAMLOOPS.			
		Salaries:			
$ 1,300 00		Superintendent		$ 1,300 00	
900 00		Matron		900 00	
10,000 00		Sundry employees		10,000 00	
$ 12,200 00				$ 12,200 00	
		Expenses:			
145 00		Office supplies, etc.		145 00	
7,500 00		Fuel, light, water, etc.		7,500 00	
5,000 00		Maintenance and repairs of buildings, grounds, etc.		6,000 00	
1,000 00		Furniture and fixtures		1,000 00	
15,000 00		Provisions, etc.		15,000 00	
3,500 00		Clothing, etc.		4,000 00	
500 00		Medical and surgical supplies		500 00	
$ 44,845 00		*Carried forward*		$ 46,345 00	$ 885,179 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	214.	PROVINCIAL HOME, KAMLOOPS—*Continued.*		
$ 44,845 00		*Brought forward*	$ 46,345 00	$ 885,179 00
		Expenses—*Continued.*		
600 00		Transportation of inmates	700 00	
1,000 00		Feed for live stock	1,000 00	
700 00		Incidentals and contingencies	750 00	
$ 47,145 00		Total of Vote No. 214		48,795 00
		TUBERCULAR HOSPITAL.		
	215.	TRANQUILLE SANATORIUM.		
		Salaries:		
		Medical Superintendent	$ 3,600 00	
		Assistant Physician	2,400 00	
		Assistant Physician	2,400 00	
		Laboratory Technician	1,200 00	
		X-ray Technician	900 00	
		Dentist	1,200 00	
		Bursar	1,800 00	
		Book-keeper	780 00	
		Stenographer	600 00	
		Sundry employees	70,340 00	
$ 335,000 00			$ 85,220 00	
		Expenses:		
		Office supplies, etc.	1,520 00	
		Travelling expenses, transportation, etc.	3,400 00	
		Fuel, light, water, etc.	39,100 00	
		Maintenance and repairs of buildings, grounds, etc.	9,300 00	
		Furniture and fixtures	3,500 00	
		Provisions, etc.	97,000 00	
		Medical and surgical supplies	3,420 00	
		Incidentals and contingencies	17,400 00	
$ 335,000 00		Total of Vote No. 215		$259,860 00
	216.	TRANQUILLE SANATORIUM FARM.		
		Salaries:		
		Superintendent	$ 2,400 00	
		Sundry employees	6,000 00	
			$ 8,400 00	
		Expenses:		
$ 20,000 00		Provisions, etc.	2,100 00	
		Fuel, light, water, etc.	700 00	
$ 20,000 00		*Carried forward*	$ 11,200 00	$259,860 00 $ 933,974 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		1922–23. Fiscal Year.
		DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
		TUBERCULAR HOSPITAL—*Continued.*		
	216.	TRANQUILLE SANATORIUM FARM—*Continued.*		
$ 20,000 00		*Brought forward*	$ 11,200 00 $259,860 00	$ 933,974 00
		Expenses—*Continued.*		
		Feed for stock	4,000 00	
		Blacksmith's supplies, repairs, etc...	750 00	
		Seed, fruit-boxes, etc.	350 00	
		Drugs and veterinary supplies, etc...	175 00	
		Implements, harness, etc.	1,200 00	
		Incidentals and contingencies	550 00	
$ 20,000 00		Total of Vote No. 216	18,225 00	
$ 355,000 00		Total, Tubercular Hospital		278,085 00
	217.	INDUSTRIAL AND SUBNORMAL BOYS' SCHOOL.		
		Salaries	$ 35,000 00	
		Expenses:		
		Office supplies, etc.	2,000 00	
		Travelling expenses, etc.	2,000 00	
		Furniture and fixtures	5,000 00	
		Clothing, boots, etc.	15,000 00	
$ 100,000 00		Maintenance and repairs of buildings, grounds, etc.	4,000 00	
		Fuel, light, water, etc.	10,000 00	
		Provisions, etc.	20,000 00	
		Medical, surgical, and dental supplies	2,000 00	
		Incidentals and contingencies	5,000 00	
$ 100,000 00		Total of Vote No. 217		100,000 00
		GRANTS TO HOSPITALS AND CHARITIES.		
$ 400,000 00	218.	Statutory grants to Hospitals	$400,000 00	
35,000 00	219.	Special grants to Hospitals	35,000 00	
6,000 00	220.	Grants to Refuge Homes, Aid Societies, etc.	6,000 00	
25,000 00	221.	In aid of destitute poor and sick	35,000 00	
10,000 00	222.	In aid of Resident Physicians	15,000 00	
2,250 00	223.	Burial of indigent persons	2,250 00	
$ 478,250 00		Total, Grants to Hospitals and Charities		493,250 00
	224.	CIVIL SERVICE COMMISSION.		
		Salaries:		
$ 4,120 00		Commissioner	$ 4,120 00	
1,800 00		Chief Clerk	1,800 00	
900 00		Clerk-Stenographer	960 00	
$ 6,820 00		*Carried forward*	$ 6,880 00	$1,805,309 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	224.	CIVIL SERVICE COMMISSION—*Continued.*		
$ 6,820 00		*Brought forward*	$ 6,880 00	$1,805,309 00
		Salaries—*Continued.*		
870 00		Stenographer	870 00	
2,400 00		Three Stenographers @ $780	2,340 00	
500 00		Temporary assistance	500 00	
$ 10,590 00			$ 10,590 00	
1,500 00		*Less* chargeable to departments for substitute work	1,600 00	
$ 9,090 00			$ 8,990 00	
		Expenses:		
1,800 00		Office supplies, etc.	1,500 00	
1,250 00		Travelling expenses, etc.	1,250 00	
1,000 00		Advertising	1,000 00	
1,200 00		Examinations	1,200 00	
1,000 00		Contingencies	500 00	
$ 15,340 00		Total of Vote No. 224		14,440 00
		GRANTS RE CIVIL SERVICE.		
$ 70,000 00	225.	Superannuation	$ 60,000 00	
4,500 00	226.	Gratuities under section 45, "Civil Service Act"	4,500 00	
$ 74,500 00		Total, Grants *re* Civil Service		64,500 00
	227.	KING'S PRINTER.		
		Salaries:		
$ 2,820 00		King's Printer and Comptroller of Stationery	$ 2,820 00	
2,100 00		Chief Clerk	2,100 00	
1,080 00		Clerk and Stenographer	900 00	
1,600 00		Cost Accountant	1,600 00	
1,080 00		Clerk	1,080 00	
780 00		Clerk and Stenographer	780 00	
1,500 00		Storekeeper	1,500 00	
1,272 00		Mail Clerk	1,272 00	
1,272 00		Stockman	1,272 00	
1,140 00		Packer	1,140 00	
360 00		Messenger	360 00	
100,132 48		Sundry employees	100,132 00	
$ 115,136 48			$114,956 00	
		Expenses:		
2,250 00		Office supplies, postage, etc.	3,000 00	
25 00		Travelling expenses, etc.	25 00	
52,000 00		Printing-paper, materials, and incidentals	52,000 00	
$ 169,411 48		*Carried forward*	$169,981 00	$1,884,249 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*		
	227.	KING'S PRINTER—*Continued.*		
$ 169,411 48		*Brought forward*	$169,981 00	$1,884,249 00
		Expenses—*Continued.*		
5,000 00		New machinery, type, maintenance of plant, repairs, etc.	7,000 00	
43,000 00		Stationery, etc.	43,000 00	
$ 217,411 48		Total of Vote No. 227		219,981 00
		MISCELLANEOUS.		
$ 10,000 00	228.	Registration of voters	$ 10,000 00	
10,000 00	229.	Royal Commissions	10,000 00	
.....	230.	Grant to Provincial Royal Jubilee Hospital	50,000 00	
1,000 00	231.	Grant to City of Greenwood	1,000 00	
12,000 00	232.	Grant to City of Rossland	12,000 00	
12,500 00	232A.	Grant to Pacific North-west Tourist Association	12,500 00	
100,000 00	233.	Grant for patriotic purposes, Returned Soldiers' Aid Commission, etc.	50,000 00	
.....	234.	Industries for blind adults	10,000 00	
50,000 00	235.	Assessment on Class 13 (The Crown), "Workmen's Compensation Act"	50,000 00	
16,500 00	236.	Salaries of members, Workmen's Compensation Board	16,500 00	
7,000 00	238.	Contingencies and incidentals	7,000 00	
$ 219,000 00		Total, Miscellaneous Votes		229,000 00
$2,397,670 48		Total, Department of the Provincial Secretary		$2,333,230 00
		DEPARTMENT OF PUBLIC WORKS.		
	240.	MINISTER'S OFFICE.		
		Salaries:		
$ 7,500 00		Minister of Public Works	$ 7,500 00	
2,040 00		Secretary	2,040 00	
$ 9,540 00			$ 9,540 00	
		Expenses:		
1,000 00		Office supplies, etc.	1,000 00	
2,000 00		Travelling expenses, etc.	2,000 00	
$ 12,540 00		Total of Vote No. 240		$ 12,540 00
	241.	ADMINISTRATION.		
		Salaries:		
$ 4,000 00		Deputy Minister	$ 4,000 00	
4,000 00		Public Works Engineer	4,400 00	
3,360 00		Assistant Public Works Engineer	3,360 00	
$ 11,360 00		*Carried forward*	$ 11,760 00	$ 12,540 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF PUBLIC WORKS—*Continued.*		
	241.	ADMINISTRATION—*Continued.*		
$ 11,360 00		*Brought forward*	$ 11,760 00	$ 12,540 00
		Salaries—*Continued.*		
		Draughting Office.		
3,120 00		Office Engineer	3,120 00	
2,100 00		Chief Draughtsman	2,100 00	
2,100 00		Draughtsman	2,100 00	
1,800 00		Draughtsman	1,800 00	
1,200 00		Draughtsman (Junior)	1,200 00	
		Architect's Office.		
3,000 00		Supervising Architect	3,000 00	
2,100 00		Assistant Supervising Architect	2,100 00	
1,720 00		Draughtsman	1,720 00	
		Accounting Office.		
2,760 00		Chief Clerk and Accountant	2,760 00	
1,780 00		Assistant Accountant	1,780 00	
1,720 00		Clerk	1,720 00	
1,620 00		Clerk	1,620 00	
2,904 00		Two Clerks @ $1,452	2,904 00	
		General Office.		
1,720 00		Senior Clerk	1,720 00	
1,500 00		Filing Clerk	1,500 00	
720 00		Junior Clerk	780 00	
540 00		Junior Clerk	600 00	
1,080 00		Stenographer	1,080 00	
2,040 00		Two Stenographers @ $1,020	2,040 00	
1,560 00		Two Stenographers @ $780	1,560 00	
560 00		Temporary assistance	1,000 00	
		Superintendent of Bridges and Buildings.		
3,120 00		Salary	3,120 00	
		Mechanical Superintendent.		
2,100 00		Salary	2,100 00	
$ 54,224 00			$ 55,184 00	
		Expenses:		
7,200 00		Office supplies, etc.	7,200 00	
3,500 00		Travelling expenses, etc.	6,500 00	
$ 64,924 00			$ 68,884 00	
.....		*Less* reduction at request of the Minister	9,200 00	
$ 64,924 00		Total of Vote No. 241		59,684 00
		Carried forward		$ 72,224 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF PUBLIC WORKS—*Continued.*		
		Brought forward		$ 72,224 00
	242.	MAINTENANCE OF PARLIAMENT BUILDINGS AND GROUNDS.		
		Salaries:		
		Telegraph Office.		
$ 1,200 00		Operator	$ 1,200 00	
540 00		Messenger	540 00	
		Garage.		
1,500 00		Chauffeur-Mechanic	1,500 00	
		Boiler-room.		
1,860 00		Engineer	1,860 00	
1,560 00		First Assistant Engineer	1,560 00	
1,380 00		Second Assistant Engineer	1,380 00	
1,380 00		Third Assistant Engineer	1,380 00	
1,680 00		Electrician	1,680 00	
1,620 00		Plumber	1,620 00	
		Carpenter-shop.		
1,500 00		Head Carpenter	1,500 00	
2,880 00		Two Carpenters @ $1,440	2,880 00	
		Janitors.		
1,600 00		Chief Janitor	1,600 00	
1,320 00		Janitor	1,320 00	
14,400 00		Twelve Janitors @ $1,200	14,400 00	
8,190 00		Seven Janitors @ $1,170	8,190 00	
4,560 00		Four Janitors @ 1,140	4,560 00	
1,200 00		Watchman	1,200 00	
2,340 00		Two Watchmen @ $1,170	2,340 00	
1,140 00		Watchman	1,140 00	
1,200 00		Usher	1,200 00	
360 00		Assistant Usher	360 00	
1,600 00		Temporary assistance	1,000 00	
		Grounds.		
1,440 00		Chief Gardener	1,440 00	
$ 56,450 00			$ 55,850 00	
		Expenses:		
20,400 00		Fuel, light, water, etc.	24,400 00	
30,400 00		Maintenance and repairs of buildings, etc.	28,800 00	
11,000 00		Gardening and grounds, etc.	7,836 00	
2,600 00		Scavenging, cleaning, and Janitors' supplies, etc.	2,600 00	
$ 120,850 00		*Carried forward*	$119,486 00	$ 72,224 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF PUBLIC WORKS—*Continued.*		
	242.	MAINTENANCE OF PARLIAMENT BUILDINGS AND GROUNDS—*Continued.*		
$ 120,850 00		*Brought forward*	$119,486 00	$ 72,224 00
		Expenses—*Continued.*		
7,500 00		Telephones	7,500 00	
1,050 00		Taxes	1,050 00	
11,100 00		Insurance	.....	
2,200 00		Garage	2,200 00	
500 00		Miscellaneous	500 00	
$ 143,200 00			$130,736 00	
.....		*Less* reduction at request of the Minister	8,062 00	
$ 143,200 00		Total of Vote No. 242		122,674 00
	243.	MAINTENANCE OF GOVERNMENT HOUSE AND GROUNDS.		
		Salaries:		
$ 2,400 00		Private Secretary	$ 2,400 00	
1,200 00		Chief Gardener	1,200 00	
$ 3,600 00			$ 3,600 00	
		Expenses:		
3,200 00		Fuel, light, water, etc.	3,200 00	
4,600 00		Maintenance, repairs, and furniture	8,250 00	
8,600 00		Gardening and grounds	8,600 00	
500 00		Ground-rent and taxes	500 00	
720 00		Secretary's house-rent	1,020 00	
700 00		Insurance	.....	
900 00		Miscellaneous	700 00	
$ 22,820 00			$ 25,870 00	
.....		*Less* reduction at request of the Minister	4,902 00	
$ 22,820 00		Total of Vote No. 243		20,968 00
	244.	DISTRICT ENGINEERS.		
		Salaries:		
$ 18,720 00		Six Engineers @ $3,120	$ 18,720 00	
3,000 00		Engineer	3,000 00	
3,000 00		Engineer	3,000 00	
2,880 00		Engineer	2,880 00	
7,500 00		Five Clerks @ $1,500	7,500 00	
1,440 00		Clerk	1,500 00	
1,440 00		Clerk	1,500 00	
1,200 00		Clerk	1,200 00	
960 00		Clerk	960 00	
900 00		Stenographer	900 00	
$ 41,040 00			$ 41,160 00	
		Expenses:		
10,300 00		Office supplies, etc.	6,850 00	
14,700 00		Travelling expenses, etc.	14,350 00	
$ 66,040 00		Total of Vote No. 244		62,360 00
		Carried forward		$ 278,226 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF PUBLIC WORKS—*Continued.*		
		Brought forward		$ 278,226 00
	245.	STEAM-BOILER INSPECTION.		
		Salaries:		
$ 4,020 00		Chief Inspector	$ 4,020 00	
6,240 00		Two Inspectors @ $3,120	6,240 00	
3,060 00		Inspector	3,060 00	
3,000 00		Inspector	3,000 00	
2,760 00		Inspector	2,760 00	
5,400 00		Two Inspectors @ $2,700	5,400 00	
2,640 00		Inspector	2,640 00	
2,580 00		Inspector	2,580 00	
5,040 00		Two Inspectors @ $2,520	5,040 00	
2,400 00		Inspector	2,400 00	
1,680 00		Engineer, launch	1,680 00	
1,260 00		Clerk	1,260 00	
960 00		Stenographer	960 00	
870 00		Stenographer	870 00	
840 00		Stenographer	840 00	
780 00		Stenographer	780 00	
500 00		Temporary assistance	.....	
$ 44,030 00			$ 43,530 00	
		Expenses:		
4,300 00		Office supplies, etc.	5,245 00	
9,600 00		Travelling expenses, etc.	9,600 00	
2,500 00		Launch (maintenance and supplies)	3,820 00	
180 00		Testing instruments and chemicals, etc.	180 00	
15,000 00		New launch to replace "Adanac"	15,000 00	
.....		Automobile	917 00	
$ 75,610 00			$ 78,292 00	
.....		*Less* reduction at request of the Minister	18,317 00	
$ 75,610 00		Total of Vote No. 245		59,975 00
	246.	"ELECTRICAL ENERGY INSPECTION ACT."		
		Salaries:		
$ 3,000 00		Inspector	$ 3,000 00	
2,220 00		Assistant Inspector	2,220 00	
(½) 420 00		Stenographer	840 00	
.....		Temporary assistance	250 00	
$ 5,640 00			$ 6,310 00	
		Expenses:		
850 00		Office supplies, etc.	400 00	
2,100 00		Travelling expenses, etc.	1,500 00	
$ 8,590 00		Total of Vote No. 246		8,210 00
		Carried forward		$ 346,411 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		DEPARTMENT OF PUBLIC WORKS—*Continued.*		
		Brought forward		$ 346,411 00
	247.	ROADS, STREETS, BRIDGES, AND WHARVES.		
$2,241,100 00		Maintenance and repairs	$2,301,494 00	
$2,241,100 00		Total of Vote No. 247		2,301,494 00
	248.	STEAMBOATS, FERRIES, AND BRIDGE-TENDERS.		
$ 261,556 00		Subsidies and Maintenance	$222,950 00	
$ 261,556 00		Total of Vote No. 248		222,950 00
$2,896,380 00		Total, Department of Public Works		$2,870,855 00
		DEPARTMENT OF RAILWAYS.		
	249.	GENERAL OFFICE.		
		Salaries:		
$ 4,500 00		Chief Engineer	$ 4,500 00	
2,760 00		Assistant Engineer	2,760 00	
3,000 00		Inspector of Rolling-stock and Equipment	3,000 00	
4,800 00		Two Assistant Inspectors of Rolling-stock and Equipment @ $2,400	4,800 00	
1,600 00		Chief Clerk	1,600 00	
870 00		Stenographer	900 00	
870 00		Stenographer	900 00	
200 00		Temporary assistance	200 00	
$ 18,600 00			$ 18,660 00	
		Expenses:		
2,000 00		Office supplies, etc.	2,000 00	
4,000 00		Travelling expenses, etc.	4,000 00	
$ 24,600 00		Total of Vote No. 249		$ 24,660 00
	250.	FRASER RIVER BRIDGE, NEW WESTMINSTER.		
$ 50,000 00		Salaries, maintenance, and repairs	$ 50,000 00	
$ 50,000 00		Total of Vote No. 250		50,000 00
$ 74,600 00		Total, Department of Railways		$ 74,660 00

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.	Fiscal Year, 1922–23.
		CAPITAL EXPENDITURES.	
	251.	Sinking Funds:	
		"Loan Acts, 1891, 1893, 1895, 1899, and 1902"—1 per cent. per annum on Inscribed Stock, £2,045,760 ($9,921,936), payable to B.C. Loan Trustees in London, England, 30th June and	
$ 99,219 36		31st December, 1922, for investment	$ 99,219 36
119,050 00		"Loan Act, 1914"—annual payment due 1st April, 1922	119,050 00
238,908 00		"Loan Act, 1915"—annual payment due 1st December, 1922	238,908 00
77,500 00		"Loan Act, 1916" (Amendment, 1917)—annual payment due 1st April, 1922	77,500 00
.....		"Loan Act, 1916"—annual payment due 15th June, 1922	57,400 00
154,505 00		"Loan Act, 1916"—annual payment due 1st July, 1922	154,505 00
86,000 00		"Loan Act, 1916"—annual payment due 2nd July, 1922	86,000 00
5,740 00		"Loan Act, 1917"—annual payment due 1st April, 1922	5,740 00
9,072 00		"Loan Act, 1917"—annual payment due 16th May, 1922	9,072 00
2,870 00		"Loan Act, 1917"—annual payment due 1st November, 1922	2,870 00
2,870 00		"Loan Act, 1917"—annual payment due 1st December, 1922	2,870 00
8,610 00		"Loan Act, 1917"—annual payment due 1st December, 1922	8,610 00
2,870 00		"Loan Act, 1917"—annual payment due 1st December, 1922	2,870 00
86,000 00		"Loan Act, 1918"—annual payment due 5th March, 1923	86,000 00
.....		"Loan Act, 1918"—annual payment due 15th June, 1922	28,700 00
.....		"Loan Act, 1919"—annual payment due 26th October, 1922	14,350 00
.....		"Loan Act, 1920"—annual payment due 26th October, 1922	14,350 00
.....		"Loan Act, 1921"—annual payment due 26th October, 1922	28,700 00
.....		"Highway Loan Act, 1920"—annual payment due 1st October, 1922	39,000 00
.....		"Better Housing Act, 1919"—annual payment due 30th June, 1922	10,300 00
41,000 00		"Better Housing Act, 1919"—annual payment due 31st December, 1922	41,000 00
7,867 00		"Dyking Debentures"—annual payment due 1st July, 1922	7,867 00
.....		"Pacific Great Eastern Construction Loan Act, 1921"—annual payment due 15th August, 1922	28,700 00
$ 942,081 36		*Carried forward*	$1,163,581 36

Estimates, 1921–22, and Statutory Additions.	No. of Vote.	SERVICE.		Fiscal Year, 1922–23.
		CAPITAL EXPENDITURES—*Continued.*		
$ 942,081 36		*Brought forward*	$1,163,581 36	
		251. Sinking Funds—*Continued.*		
.....		"Department of Industries Act"—annual payment due 15th August, 1922	28,700 00	
305,000 00		Investment of dividends	375,000 00	
$1,247,081 36		Total of Vote No. 251		$1,567,281 36
773,884 00		252. Pacific Great Eastern Railway Company—Interest on Guaranteed Bonds due 15th July, 1922, and 15th January, 1923		773,884 00
.....		253. Pacific Great Eastern Railway Company—*Re* deficit on Operation and Maintenance Account		500,000 00
9,700 00		254. British Columbia House, London, England—Instalment on mortgage		9,700 00
50,000 00		255. Songhees Reserve		25,000 00
200,000 00		256. Johnson Street Bridge		.....
99,000 00		257. Industrial School and Boys' Subnormal School		20,000 00
237,100 00		258. Mental Hospitals—Acute Building, etc.		150,000 00
50,000 00		259. Tranquille Sanatorium—Buildings, etc.		28,300 00
.....		260. Tranquille Sanatorium—Farm		8,000 00
25,000 00		261. School for the Deaf, Dumb, and Blind, Point Grey—Building, etc.		10,000 00
200,000 00		262. Government Buildings, Prince Rupert		215,000 00
25,000 00		263. Government Buildings, Pouce Coupe		.....
23,000 00		264. Government Buildings, Williams Lake		7,000 00
19,000 00		265. Lock-ups (Alice Arm and Kimberley)		.....
.....		266. Addition to Kamloops Land Registry and Court-house		35,000 00
$2,958,765 36		Total, Capital Expenditures		$3,,349,165 36

DETAILED STATEMENT OF VOTE No. 98.

Salaries of Teachers in Assisted Schools.

Salary, 1921–22.	School.	Salary, 1922–23.
$ 960 00	Adelphi	$ 960 00
1,020 00	Ainsworth	1,020 00
1,080 00	Albert Canyon	1,080 00
900 00	Albert Head	900 00
1,140 00	Alexander Manson	1,140 00
1,140 00	Alexandria	1,140 00
1,140 00	Alice Arm	1,200 00
1,020 00	Alice Siding	1,020 00
1,140 00	Allenby, Principal	1,140 00
960 00	Allenby, 2nd Div.	960 00
960 00	Allen Grove	960 00
960 00	Alvin	960 00
1,050 00	Anarchist Mountain	1,050 00
1,320 00	Anderson	Closed.
960 00	Anderson Creek	960 00
1,050 00	Annable	1,050 00
1,080 00	Appledale	1,080 00
1,020 00	Argenta	1,020 00
1,080 00	Arrow Park, West	1,080 00
1,000 00	Ashton Creek	1,000 00
1,020 00	Aspen Grove	1,020 00
1,080 00	Athalmer	1,080 00
1,140 00	Balfour	1,140 00
980 00	Balmoral	980 00
900 00	Bamberton	900 00
1,000 00	Bamfield	1,000 00
1,200 00	Barkerville	1,200 00
960 00	Barnston Island	960 00
1,020 00	Barriere River	1,020 00
1,020 00	Barriere Valley	1,020 00
960 00	Bear Creek	960 00
1,320 00	Bear Flats	1,320 00
1,050 00	Beaton	1,050 00
960 00	Beaver Cove	960 00
1,200 00	Beaver Lake	1,200 00
1,080 00	Beaverley	1,080 00
1,020 00	Belford	1,020 00
1,140 00	Bella Coola	1,140 00
1,140 00	Bella Coola, Lower	1,140 00
960 00	Bellevue	960 00
1,140 00	Big Bar	1,140 00
1,200 00	Big Bar Mountain	1,200 00
1,140 00	Big Bar, Upper	1,140 00
1,140 00	Big Eddy	1,140 00
1,140 00	Big Lake	1,140 00
1,000 00	Birchbank	1,000 00
1,050 00	Blaeberry	1,050 00
960 00	Blind Bay	960 00
1,020 00	Blind Channel	1020 00
1,020 00	Blubber Bay	1,020 00
$1,050 00	Blueberry Creek	$1,050 00
1,020 00	Blue Ridge	1,020 00
1,050 00	Blue River	1,050 00
1,020 00	Bonaparte, North	1,020 00
1,020 00	Bonaparte Valley	1,020 00
960 00	Boston Bar	960 00
1,020 00	Boswell	1,020 00
1,020 00	Boundary Falls	1,020 00
960 00	Bowen Island	960 00
1,080 00	Bowie	1,080 00
1,080 00	Box Lake	1,080 00
1,080 00	Braeside	1,080 00
1,050 00	Bridesville	1,050 00
1,050 00	Bridge Lake	1,050 00
1,260 00	Brilliant, Principal	1,380 00
1,200 00	Brilliant, 2nd Div.	1,200 00
1,140 00	Brilliant, 3rd Div.	1,140 00
1,140 00	Brilliant, 4th Div.	1,140 00
1,080 00	Brisco	1,080 00
1,200 00	Britannia Beach, Principal	1,200 00
1,020 00	Britannia Beach, 2nd Div.	1,020 00
1,140 00	Britannia Mine	1,140 00
1,020 00	Brookmere	1,020 00
1,080 00	Brown Creek	1,080 00
1,100 00	Buckley Bay	1,100 00
1,080 00	Bulkley, North	1,080 00
1,080 00	Bulkley, South	1,080 00
1,260 00	Burns Lake, Principal	1,260 00
1,080 00	Burns Lake, 2nd Div.	1,080 00
960 00	Cahilty	960 00
1,020 00	Caithness	1,020 00
1,000 00	Campbell Range	1,000 00
1,140 00	Camp Lister, Principal	1,140 00
1,000 00	Camp Lister, 2nd Div.	1,000 00
900 00	Canford	900 00
1,140 00	Canim Lake	1,140 00
1,140 00	Cape Scott	1,140 00
980 00	Carlin Siding	980 00
960 00	Carroll's Landing	960 00
1,260 00	Cartier	1,260 00
1,050 00	Castledale	1,050 00
1,050 00	Cedarvale	1,050 00
1,200 00	Champion Creek	1,200 00
960 00	Chase Creek, Lower	960 00
900 00	Chaumox	900 00
960 00	Cheakamus	960 00
1,140 00	Chief Lake	1,140 00
1,080 00	Chilco	1,080 00
1,200 00	Chilcotin	1,200 00
1,200 00	Chimney Creek	1,200 00

DETAILED STATEMENT OF VOTE No. 98—*Continued.*

SALARIES OF TEACHERS IN ASSISTED SCHOOLS—*Continued.*

Salary, 1921–22.	School.	Salary, 1922–23.
$ 960 00	Chinook Cove	$ 960 00
1,080 00	Christian Valley	1,080 00
1,020 00	Christina Lake	1,020 00
1,000 00	Chu Chua	1,000 00
1,020 00	Clayoquot	1,020 00
1,020 00	Clearwater	1,020 00
900 00	Clifton	900 00
1,000 00	Clo-oose	1,000 00
1,020 00	Coalmont	1,020 00
1,140 00	Cokato	1,140 00
1,140 00	Collishaw	1,140 00
1,080 00	Coltern	1,080 00
1,080 00	Columbia Gardens	1,080 00
900 00	Concord	900 00
1,020 00	Cooper Creek	1,020 00
900 00	Copper Creek Station	900 00
1,140 00	Copper Mountain, Principal	1,140 00
960 00	Copper Mountain, 2nd Div.	960 00
1,020 00	Cortes Island	1,020 00
960 00	Craigellachie	960 00
960 00	Cranberry Marsh	960 00
1,000 00	Crawford Creek	1,000 00
960 00	Criss Creek	960 00
1,080 00	Crow's Nest	1,080 00
1,020 00	Cultus Lake	1,020 00
1,020 00	Curzon	1,020 00
1,320 00	Dawson Creek	1,320 00
1,320 00	Dawson Creek, North	1,320 00
1,320 00	Dawson Creek, South	1,320 00
1,050 00	Decker Lake	1,050 00
1,020 00	Deep Creek	1,020 00
1,080 00	Deer Park	1,080 00
1,080 00	Demars, West	1,080 00
1,320 00	Discovery	1,320 00
900 00	Divide	900 00
1,320 00	Doe Creek	1,320 00
1,140 00	Dome Creek	1,140 00
960 00	Doriston	960 00
1,140 00	Dragon Lake	1,140 00
1,080 00	Driftwood Creek	1,080 00
1,080 00	Dunster	1,080 00
960 00	Eagle Bay	960 00
1,020 00	Eagle Valley	1,020 00
1,080 00	Edgewood	1,080 00
1,020 00	Eholt	1,020 00
1,140 00	Elk Bridge	1,140 00
1,080 00	Ellesby	1,080 00
960 00	Elphinstone Bay	960 00
1,080 00	Endako	1,080 00
1,080 00	Engen	1,080 00
$1,020 00	Erie	$1,020 00
960 00	Essondale	960 00
1,020 00	Evelyn	1,020 00
1,020 00	Ewing's Landing	1,020 00
1,050 00	Fairview	1,050 00
1,020 00	Falkland	1,020 00
960 00	False Bay	960 00
960 00	Fauquier	960 00
1,200 00	Felker Lake	1,200 00
1,020 00	Ferguson	Closed.
1,080 00	Fife	1,080 00
1,050 00	Firvale	1,050 00
1,080 00	Fire Valley	1,080 00
1,020 00	Fir Valley	1,020 00
980 00	Fish Lake Road	980 00
1,140 00	Flagstone	1,140 00
1,020 00	Floral Creek	1,020 00
1,080 00	Florence Mine	1,080 00
1,140 00	Forest Grove	1,140 00
1,140 00	Fort Fraser	1,140 00
1,440 00	Fort George, Principal	1,440 00
1,200 00	Fort George, 2nd Div.	1,200 00
1,380 00	Fort George, S., Principal	1,380 00
1,140 00	Fort George, S., 2nd Div.	1,140 00
1,320 00	Fort St. John	1,320 00
1,020 00	Foster's Bar	1,020 00
1,140 00	Francois Lake	1,140 00
1,140 00	Francois Lake, South	1,140 00
900 00	Gabriola, East	900 00
900 00	Gabriola, North	900 00
900 00	Gabriola, South	900 00
1,080 00	Galena Bay	1,080 00
900 00	Galiano	900 00
900 00	Galiano, North	900 00
960 00	Gerrard	960 00
960 00	Gillis Bay	960 00
960 00	Gilpin	960 00
1,140 00	Giscome	1,140 00
1,080 00	Glacier	1,080 00
1,260 00	Glade, Principal	1,260 00
1,160 00	Glade, 2nd Div.	1,160 00
900 00	Gladwin	900 00
1,140 00	Glencoe	1,140 00
960 00	Glenrosa	960 00
1,080 00	Glentanna	1,080 00
900 00	Gowlland Harbour	900 00
960 00	Grandview Bench	960 00
960 00	Granite Bay	960 00
960 00	Gray Creek	960 00
1,000 00	Green Lake	1,000 00

DETAILED STATEMENT OF VOTE No. 98—*Continued.*

SALARIES OF TEACHERS IN ASSISTED SCHOOLS—*Continued.*

Salary, 1921–22.	School.	Salary, 1922–23.
$ 960 00	Half Moon Bay	Closed.
1,080 00	Hall's Landing	1,080 00
1,050 00	Hanall	1,050 00
1,020 00	Hardwicke Island	1,020 00
1,200 00	Harper's Camp	1,200 00
1,020 00	Harrogate	1,020 00
1,080 00	Harrop	1,080 00
1,200 00	Hazelton	1,200 00
1,140 00	Hazelton, New	1,140 00
1,050 00	Heffley Creek	1,050 00
1,000 00	Heffley Creek, Upper	1,000 00
960 00	Hendon	960 00
960 00	Heriot Bay	960 00
1,020 00	Heywood's Corner	1,020 00
900 00	Highland	900 00
1,140 00	Hilborn	1,140 00
1,020 00	Hillcrest	1,020 00
1,020 00	Hilltop	1,020 00
960 00	Hilton	960 00
960 00	Hope Station	960 00
960 00	Hornby Island	960 00
1,080 00	Horse Creek	1,080 00
1,140 00	Hosmer	1,140 00
1,100 00	Houston	1,100 00
1,080 00	Hulatt	1,080 00
1,100 00	Hunter Island	1,100 00
1,020 00	Hupel	1,020 00
1,080 00	Huscroft	1,080 00
1,200 00	Hutton	1,200 00
960 00	Ingram Mountain	960 00
1,080 00	Invermere	1,080 00
960 00	Irvine's Landing	960 00
900 00	Isabella Point	900 00
960 00	James Island	960 00
1,140 00	Jesmond	1,140 00
1,020 00	Johnson's Landing	1,020 00
960 00	Jordan River	960 00
1,020 00	Jura	1,020 00
960 00	Kaleden	960 00
1,020 00	Kaleva	1,020 00
1,020 00	Kedleston	1,020 00
960 00	Keefers	960 00
1,020 00	Kettle River, North	1,020 00
1,080 00	Kettle Valley	1,080 00
1,000 00	Kildonan	1,000 00
1,020 00	Killarney	1,020 00
1,200 00	Kimberley, Principal	1,200 00
1,080 00	Kimberley, 2nd Div.	1,080 00
1,020 00	Kingcome Inlet	1,020 00
1,020 00	Kingsgate	1,020 00
$1,000 00	Kinnaird	$1,000 00
1,080 00	Kitchener	1,080 00
960 00	Knutsford	960 00
1,020 00	Koch Siding	1,020 00
1,200 00	Krestova	1,200 00
960 00	Lac du Bois	960 00
960 00	Lackenby	960 00
1,140 00	Lac la Hache	1,140 00
960 00	Lake Buntzen	960 00
1,080 00	Lake District	1,080 00
1,320 00	Landry	1,320 00
960 00	Lang Bay	960 00
1,080 00	Lawn Hill	1,080 00
1,080 00	Lee	1,080 00
960 00	Lee Creek	960 00
1,050 00	Little Fort	1,050 00
1,080 00	Longworth	1,080 00
1,140 00	Loos	1,140 00
1,100 00	Lucerne	1,100 00
1,020 00	Mabel Lake	1,020 00
960 00	Magna Bay	960 00
1,260 00	Malcolm Island, Principal	1,260 00
1,020 00	Malcolm Island, 2nd Div.	1,020 00
1,140 00	Mapes	1,140 00
960 00	Marshall	960 00
1,100 00	Masset	1,100 00
1,020 00	Mayook	1,020 00
1,020 00	Meadow Spur	1,020 00
960 00	Meadow Valley	960 00
1,200 00	Meldrum Creek	1,200 00
1,020 00	Menzies Bay	1,020 00
1,140 00	Miocene	1,140 00
960 00	Mitchell Bay	960 00
1,080 00	Morrissey Mines	1,080 00
1,080 00	Mount Ingersoll	1,080 00
1,080 00	Moyase	1,080 00
1,080 00	Moyie	1,080 00
1,080 00	Mud River	1,080 00
1,020 00	Myncaster	1,020 00
960 00	Myrtle Point	960 00
1,140 00	Macalister	1,140 00
900 00	McConnell Creek	900 00
1,020 00	McGuire	1,020 00
1,140 00	MacKenzie	1,140 00
900 00	McLure	900 00
1,080 00	McMurdo	1,080 00
1,080 00	Nechako	1,080 00
1,080 00	Needles	1,080 00
1,020 00	Newgate	1,020 00
1,020 00	Nickel Plate Mine	1,020 00

DETAILED STATEMENT OF VOTE No. 98—*Continued.*

SALARIES OF TEACHERS IN ASSISTED SCHOOLS—*Continued.*

Salary, 1921–22.	School.	Salary, 1922–23.
$1,020 00	Nimpkish	$1,020 00
960 00	Nimpkish River	960 00
1,140 00	Nithi River	1,140 00
960 00	Noble Creek	960 00
1,120 00	Noosatsum	1,120 00
1,020 00	Norwegian Creek	1,020 00
1,020 00	Okanagan Centre	1,020 00
960 00	Okeover Arm	960 00
1,020 00	Olalla	1,020 00
1,140 00	Oliver, Principal	1,140 00
960 00	Oliver, 2nd Div.	960 00
960 00	Olsen Lake	960 00
1,200 00	150-Mile House	1,200 00
1,020 00	One-mile Creek	1,050 00
1,100 00	Oona River	1,100 00
1,080 00	Orange Valley	1,080 00
1,100 00	Osland	1,100 00
960 00	Osoyoos	960 00
1,200 00	Outlook	1,200 00
960 00	Oyster Bay	960 00
960 00	Pachelqua	960 00
1,050 00	Pacific	1,050 00
1,000 00	Park's Siding	1,000 00
960 00	Parson	960 00
1,200 00	Pass Creek	1,200 00
960 00	Passmore	960 00
960 00	Paxton Valley	960 00
900 00	Pemberton Meadows	900 00
960 00	Pemberton Range	960 00
960 00	Pender Harbour	960 00
1,080 00	Penny	1,080 00
1,080 00	Perry Siding	1,080 00
960 00	Pinantan	960 00
1,080 00	Pine View	1,080 00
960 00	Popcum	960 00
1,200 00	Port Alice, Principal	1,200 00
1,020 00	Port Alice, 2nd Div.	1,020 00
1,140 00	Port Clements	1,140 00
1,020 00	Port Hardy	1,020 00
1,000 00	Port Renfrew	1,000 00
1,320 00	Pouce Coupe	1,320 00
1,320 00	Pouce Coupe, Central	1,320 00
1,320 00	Pouce Coupe, North	1,320 00
1,050 00	Princeton, East	1,050 00
1,080 00	Quatsino	1,080 00
1,140 00	Queen Charlotte	1,140 00
1,050 00	Quick	1,050 00
1,020 00	Raft River	1,020 00
960 00	Read Island	960 00
980 00	Red Lake	980 00
$ 960 00	Reiswig	$ 960 00
1,080 00	Renata	1,080 00
900 00	Retreat Cove	900 00
1,100 00	Rexmount	1,100 00
1,020 00	Riondel	1,020 00
960 00	Roberts Creek, East	960 00
1,050 00	Robin's Range	1,050 00
1,020 00	Rock Bay	1,020 00
1,140 00	Rock Creek	1,140 00
1,080 00	Rock Mountain	1,080 00
1,100 00	Roe Lake	1,100 00
1,000 00	Roosville	1,000 00
1,020 00	Rosebery	1,020 00
1,200 00	Rose Lake	1,200 00
1,050 00	Round Lake	1,050 00
1,020 00	Round Top	1,020 00
960 00	Saint Elmo	960 00
960 00	St. Eugene Mission	960 00
960 00	Salmon Bench	960 00
1,020 00	Salmon Valley	1,020 00
960 00	Sand Creek	960 00
1,140 00	Sandspit	1,140 00
1,320 00	Saskatoon Creek	1,320 00
900 00	Saturna Island	900 00
960 00	Savary Island	960 00
940 00	Savona Road	940 00
1,020 00	Sayward	1,020 00
960 00	Seaford	960 00
960 00	Sechelt	960 00
1,080 00	Seton Lake Creek	1,080 00
960 00	Seton Portage	960 00
1,000 00	Seventy-Mile House	1,000 00
1,080 00	Seymour Arm	1,080 00
1,100 00	Sheridan Lake	1,100 00
900 00	Shirley	900 00
1,020 00	Shoreacres	1,020 00
1,020 00	Shuswap, North	1,020 00
1,020 00	Shutty Bench	1,020 00
1,080 00	Sicamous	1,080 00
960 00	Sinclair	960 00
1,020 00	Sirdar	1,020 00
1,140 00	Sisters Creek	1,140 00
960 00	Skookumchuck	960 00
1,140 00	Soda Creek	1,140 00
1,020 00	Solsqua	1,020 00
900 00	Sooke, East	900 00
900 00	Sooke, North	900 00
960 00	Sorrento	960 00
1,200 00	Spencer	1,200 00
1,200 00	Springhouse	1,200 00

DETAILED STATEMENT OF VOTE No. 98—*Continued.*

Salaries of Teachers in Assisted Schools—*Continued.*

Salary, 1921–22.	School.	Salary, 1922–23.
$1,000 00	Sproat	$1,000 00
1,050 00	Squam Bay	1,050 00
1,000 00	Squirrel Cove	1,000 00
1,200 00	Stewart	1,200 00
960 00	Stillwater	960 00
1,080 00	Stone Creek	1,080 00
1,080 00	Stuart Station	1,080 00
960 00	Sullivan Valley	960 00
1,020 00	Summit Lake	1,020 00
960 00	Sunnybrae	960 00
960 00	Sunnyside	960 00
1,050 00	Sunnyside Cannery	1,050 00
1,000 00	Sunnyside No. 2	1,000 00
1,020 00	Suquash	1,020 00
1,050 00	Surf Inlet Beach	1,050 00
1,050 00	Surf Inlet Mine	1,050 00
1,320 00	Swan Lake	1,320 00
1,140 00	Swanson Bay	1,140 00
1,050 00	Swift Creek	1,050 00
960 00	Syringa Creek	960 00
980 00	Tappen Valley	980 00
1,080 00	Tatalrose	1,080 00
1,320 00	Taylor's Flats	1,320 00
1,080 00	Tchesinkut Lake	1,080 00
1,380 00	Telegraph Creek	1,380 00
1,320 00	Tete Creek	1,320 00
900 00	Thetis Island	900 00
960 00	Three Forks	1,020 00
1,080 00	Thrums	1,080 00
1,020 00	Thurlow	1,020 00
1,020 00	Tonkawatla	1,020 00
1,050 00	Topley	1,050 00
960 00	Tranquille	960 00
980 00	Trapp Lake	980 00
1,000 00	Trinity Creek	1,000 00
1,000 00	Trinity Valley	1,000 00
1,140 00	Trout Lake	1,140 00
960 00	Tucker Bay	960 00
1,020 00	Tulameen	1,020 00
960 00	Turtle Valley	960 00
$ 960 00	Twin Butte	$ 960 00
1,020 00	Ucluelet	1,020 00
1,000 00	Ucluelet, East	1,000 00
1,080 00	Uncha Valley	1,080 00
1,200 00	Usk, Principal	1,200 00
1,050 00	Usk, 2nd Div.	1,050 00
960 00	Valdes Island	960 00
1,020 00	Vavenby	1,020 00
1,050 00	Vinsulla	1,050 00
960 00	Waleach	960 00
960 00	Walhachin	960 00
1,000 00	Wanklyn	1,000 00
1,080 00	Wasa	1,080 00
960 00	Watmore	960 00
1,080 00	Wattsburg	1,080 00
1,080 00	Webber Lake	1,080 00
1,020 00	Wellbore Channel	1,020 00
1,020 00	Westbank	1,020 00
1,020 00	Westbridge	1,020 00
1,020 00	Westsyde	1,020 00
960 00	Westview	960 00
1,020 00	Whaletown	1,020 00
1,000 00	White Lake	1,000 00
1,260 00	Williams Lake	1,260 00
1,020 00	William's Siding	1,020 00
1,000 00	Willow Point	1,020 00
1,140 00	Willow River	1,140 00
1,080 00	Willowvale	1,080 00
1,080 00	Wilmer	1,080 00
900 00	Wilson Creek	900 00
1,020 00	Windermere	1,020 00
960 00	Wire Cache	960 00
1,140 00	Wistaria	1,140 00
1,140 00	Woodfibre, Principal	1,140 00
960 00	Woodfibre, 2nd Div.	960 00
1,080 00	Woodpecker	1,080 00
1,000 00	Woodville Road	1,000 00
1,140 00	Wynndel, Principal	1,140 00
1,000 00	Wynndel, 2nd Div.	1,000 00
960 00	Yale	960 00

DETAILED STATEMENT OF VOTE No. 99.

Salaries of Teachers of Schools in Esquimalt & Nanaimo Railway Belt.

$ 900 00	Bainbridge	$ 900 00
960 00	Beaver Creek	960 00
960 00	Bench	960 00
1,140 00	Bevan, Principal	1,140 00
960 00	Bevan, 2nd Div.	960 00
900 00	Bowser	900 00
$1,260 00	Brechin, Principal	$1,260 00
1,080 00	Brechin, 2nd Div.	1,080 00
960 00	Brechin, 3rd Div.	960 00
1,020 00	Cassidy, Principal	1,020 00
960 00	Cassidy, 2nd Div.	960 00
900 00	Cedar, East	900 00

DETAILED STATEMENT OF VOTE No. 99—*Continued.*

SALARIES OF TEACHERS OF SCHOOLS IN ESQUIMALT & NANAIMO RAILWAY BELT—*Continued.*

Salary, 1921–22.	School.	Salary, 1922–23.
$1,260 00	Cedar, North, Principal	$1,260 00
1,020 00	Cedar, North, 2nd Div.	1,020 00
960 00	Cedar, North, 3rd Div.	960 00
1,020 00	Cedar, South	1,020 00
1,260 00	Chase River, Principal	1,260 00
1,080 00	Chase River, 2nd Div.	1,080 00
960 00	Chase River, 3rd Div.	960 00
960 00	Cherry Creek Valley	960 00
1,020 00	Cobble Hill	1,020 00
1,140 00	Comox, Principal	1,140 00
960 00	Comox, 2nd Div.	960 00
1,140 00	Cowichan, Principal	1,140 00
960 00	Cowichan, 2nd Div.	960 00
960 00	Cowichan Lake	960 00
960 00	Departure Bay	960 00
1,140 00	Diamond Crossing, Principal	1,140 00
960 00	Diamond Crossing, 2nd Div.	960 00
1,020 00	Dove Creek	1,020 00
1,140 00	Errington, Principal	1,140 00
960 00	Errington, 2nd Div.	960 00
1,260 00	Extension, Principal	1,260 00
1,080 00	Extension, 2nd Div.	1,080 00
960 00	Extension, 3rd Div.	960 00
960 00	Fanny Bay	960 00
960 00	French Creek	960 00
1,020 00	Gill	1,020 00
960 00	Glenora	960 00
1,080 00	Grantham	1,080 00
960 00	Grant Mine	960 00
1,500 00	Harewood, Principal	1,500 00
1,260 00	Harewood, 2nd Div.	1,260 00
1,140 00	Harewood, 3rd Div.	1,140 00
1,020 00	Harewood, 4th Div.	1,020 00
960 00	Harewood, 5th Div.	960 00
960 00	Harewood, 6th Div.	960 00
960 00	Harewood, 7th Div.	960 00
960 00	Harewood, 8th Div.	960 00
960 00	Harewood, 9th Div.	960 00
960 00	Headquarters	960 00
960 00	Hillier	960 00
$ 960 00	Koksilah	$ 960 00
1,020 00	Lazo	1,020 00
900 00	Mayo	900 00
1,200 00	Merville, Principal	1,200 00
1,020 00	Merville, 2nd Div.	1,020 00
1,020 00	Mill Bay	1,020 00
1,140 00	Minto, Principal	1,140 00
960 00	Minto, 2nd Div.	960 00
1,020 00	Mountain	1,020 00
960 00	McGuigan	960 00
1,140 00	Nanaimo Bay, Principal	1,140 00
1,000 00	Nanaimo Bay, 2nd Div.	1,000 00
960 00	Nanoose Bay	960 00
960 00	Nob Hill	960 00
1,140 00	Northfield, Principal	1,140 00
960 00	Northfield, 2nd Div.	960 00
960 00	Oyster	960 00
1,020 00	Oyster, North	1,020 00
1,140 00	Parksville, Principal	1,140 00
960 00	Parksville, 2nd Div.	960 00
960 00	Puntledge	960 00
1,140 00	Qualicum Beach, Principal	1,140 00
960 00	Qualicum Beach, 2nd Div.	960 00
960 00	Qualicum, Little	960 00
960 00	Red Gap	960 00
960 00	Royston	960 00
960 00	Sahtlam	960 00
1,080 00	Sandwick	1,080 00
1,020 00	Shawnigan	1,020 00
960 00	Sylvania	960 00
1,260 00	Union Bay, Principal	1,260 00
1,080 00	Union Bay, 2nd Div.	1,080 00
960 00	Union Bay, 3rd Div.	960 00
1,140 00	Wellington, Principal	1,140 00
960 00	Wellington, 2nd Div.	960 00
1,380 00	Wellington, South, Principal	1,380 00
1,200 00	Wellington, South, 2nd Div.	1,200 00
1,080 00	Wellington, South, 3rd Div.	1,080 00
960 00	Wellington, South, 4th Div.	960 00

1921-1922

SUPPLEMENTARY ESTIMATES OF EXPENDITURE

FOR THE

FISCAL YEAR ENDING 31ST MARCH, 1922

Main Estimates and Special Warrants Fiscal Year 1921–22.	No. of Vote.	SERVICE.		Fiscal Year, 1921–22.
$2,829,633 08	1.	PUBLIC DEBT.		
		PREMIUM AND EXCHANGE.		
		On drafts for Interest remittances	$ 35,000 00	
		DEPARTMENT OF AGRICULTURE.		
34,996 00	5.	General Office—Office supplies, etc.	$ 7,500 00	
38,440 00	6.	Horticultural Branch—Travelling expenses	7,000 00	
8,650 00	13.	Poultry Division—Travelling expenses	1,800 00	
9,630 00	14.	Soil and Crop Division—Travelling expenses	1,700 00	
9,520 00	15.	Dairy Branch—Travelling expenses	2,200 00	
30,000 00	20.	Tubercular cattle—Compensation, supplies, etc.	25,000 00	
				45,200 00
		DEPARTMENT OF THE ATTORNEY-GENERAL.		
11,810 00	44.	Attorney-General's Office—Travelling expenses	$ 750 00	
26,010 00	46.	Joint-stock Companies and Insurance Branch:		
		Office supplies, etc. $1,000 00		
		Travelling expenses 600 00		
			1,600 00	
7,140 00	47.	Municipal Branch—Travelling expenses	150 00	
6,580 00	49.	Administration of "Prohibition Act"—Seizures and prosecutions	15,000 00	
32,082 00	55.	Land Registry Office, Kamloops—Office supplies, etc.	2,000 00	
17,756 00	56.	Land Registry Office, Nelson—Office supplies, etc.	550 00	
		Carried forward	$ 20,050 00	$ 80,200 00

Main Estimates and Special Warrants Fiscal Year 1921–22.	No. of Vote.	SERVICE.		Fiscal Year, 1921–22.
		DEPARTMENT OF THE ATTORNEY-GENERAL—*Continued.*		
		Brought forward	$ 20,050 00	$ 80,200 00
$ 40,506 00	57.	Land Registry Office, New Westminster—Office supplies, etc.	250 00	
61,820 00	59.	Land Registry Office, Vancouver—Office supplies, etc.	1,000 00	
51,020 00	60.	Land Registry Office, Victoria—Office supplies, etc.	750 00	
1,730 00	61.	Supreme and County Courts, Chilliwack—Office supplies, etc.	150 00	
7,202 00	64.	Supreme and County Courts, New Westminster—Office supplies, etc.	250 00	
2,670 00	65.	Supreme and County Courts, Prince Rupert—Office supplies, etc.	250 00	
33,192 00	66.	Supreme and County Courts, Vancouver—Office supplies, etc.	1,000 00	
28,442 00	67.	Supreme and County Courts, Victoria—Temporary assistance	900 00	
7,188 00	68.	Official Stenographers—One Stenographer (7 mos.)	175 00	
30,050 00	72.	Girls' Industrial School—Maintenance and repairs	2,225 00	
10,000 00	80.	Constitutional litigation and general law costs	10,000 00	
.....	80A.	In aid of removal of railway freight rates discriminating against British Columbia	40,000 00	
400,000 00	86A.	"Mothers' Pensions Act, 1920"	90,000 00	
				167,000 00
		DEPARTMENT OF EDUCATION.		
94,880 00	88.	Free Text-book Branch—Text-books, maps, globes, etc.	$ 7,200 00	
12,000 00	104.	Conveying children to central schools	13,000 00	
				20,200 00
		DEPARTMENT OF FINANCE.		
37,796 00	109.	General Office:		
		Office supplies, printing of bonds, etc. $ 2,500 00		
		Discount and exchange, legal expenses, etc. 2,500 00		
			$ 5,000 00	
79,300 00	115.	Agent-General's Office, London, England:		
		Travelling expenses $ 1,425 00		
		British Columbia House—Maintenance and repairs to building 2,600 00		
			4,025 00	
19,286 00	132.	Kamloops Agency:		
		Salaries:		
		Janitor (additional) $ 300 00		
		Temporary assistance 500 00		
			800 00	
109,556 00	151.	Vancouver Agency—Alterations to Court-house	2,500 00	
15,728 00	152.	Vernon Agency—Expenses	2,000 00	
		Carried forward	$ 14,325 00	$ 267,400 00

Main Estimates and Special Warrants Fiscal Year 1921–22.	No. of Vote.	SERVICE.		Fiscal Year, 1921–22.
		DEPARTMENT OF FINANCE—*Continued.*		
		Brought forward	$ 14,325 00	$ 267,400 00
.....	162A.	Refund of commissions on intestate estates to Civil Servants who are Official Administrators, as per Orders in Council Nos. 937 and 1284 of 1921	3,900 00	
.....	162B.	City of Nelson—Amount of land taxes levied by the Government for the year 1921 on new area of Fairfield annexed by the City of Nelson as from 1st January, 1921	3,735 63	
				21,960 63
		DEPARTMENT OF LABOUR.		
$ 25,000 00	167A.	To provide for contributions towards unemployment relief, conditioned upon the Federal Government and the municipalities interested each contributing one-third of the total cost		32,000 00
		DEPARTMENT OF LANDS.		
60,000 00	191.	Oil Investigations	$ 25,000 00	
.....	195A.	Canadian Forestry Association—Donation towards conservation campaign	750 00	
.....	195B.	Canada Shingle Company — Compensation in respect of trespass on Timber Licence No. 2828	55 70	
.....	195C.	Owen Brines—Compensation for cancellation of Timber Sale Contract No. 2797	497 81	
				26,303 51
		DEPARTMENT OF THE PROVINCIAL SECRETARY.		
19,570 00	210.	Provincial Library and Archives—Office supplies, etc.	$ 1,500 00	
25,000 00	221.	In aid of destitute poor and sick	20,000 00	
10,000 00	222.	In aid of Resident Physicians	5,000 00	
355,000 00	237.	Tranquille Sanatorium—Maintenance	28,000 00	
.....	239A.	Relief of Unemployment	250,000 00	
.....	239B.	Grant in aid of sufferers from floods	13,000 00	
				317,500 00
		DEPARTMENT OF PUBLIC WORKS.		
22,820 00	243.	Maintenance of Government House and Grounds—Maintenance, repairs, and furniture	$ 1,000 00	
3,000 00	249A.	"Rule of the Road"	1,500 00	
				2,500 00
		Carried forward		$ 667,664 14

Main Estimates and Special Warrants Fiscal Year 1921–22.	No. of Vote.	SERVICE.		Fiscal Year, 1921–22.
		DEPARTMENT OF RAILWAYS.		
		Brought forward		$ 667,664 14
$ 50,000 00	251.	Fraser River Bridge, New Westminster—Salaries, maintenance, and repairs		25,000 00
		CAPITAL EXPENDITURES.		
.....	253A.	Pacific Great Eastern Railway Company—To repair damage caused by flood	$200,000 00	
50,000 00	259.	Tranquille Sanatorium—Discharge of encumbrance	22,000 00	
4,115 50	266.	Girls' Industrial School—Erection of barn, etc. ...	750 00	
.....	267.	Government Buildings, Barkerville	3,500 00	
.....	268.	Technical School Vancouver	623 05	
.....	269.	Maple Ridge Dyking District:		
		Advance for drainage over an area of 8,394 acres ..... $ 20,000 00		
		Advance *re* pumping plant 20,500 00		
			40,500 00	
.....	270.	Garage, Cranbrook	$ 11,000 00	
.....	271.	Garage, Kamloops	8,000 00	
				286,373 05
		Total		$ 979,037 19

1920-1921

SCHEDULE A

SUMS GRANTED TO HIS MAJESTY TO MAKE GOOD CERTAIN SUMS EXPENDED FOR THE PUBLIC SERVICE FOR THE PERIOD ENDED 31st MARCH, 1921, AND TO INDEMNIFY THE SEVERAL OFFICERS AND PERSONS FOR MAKING SUCH EXPENDITURES.

SERVICE.	Amount.
DEPARTMENT OF AGRICULTURE:	
Tubercular Cattle—Compensation, etc.	$ 98 51
Farmers' Institutes, etc.	17 22
DEPARTMENT OF THE ATTORNEY-GENERAL:	
Attorney-General's Office	104 95
Municipal Branch	45 35
Supreme and County Court, Ladysmith	6 70
Supreme and County Court, Nelson	9 29
Supreme and County Court, Victoria	498 25
Provincial Police	23,071 06
Oakalla Prison Farm	128 53
Girls' Industrial School	1,528 95
Expenses of Inquests	101 87
Game Protection	4,776 85
DEPARTMENT OF FINANCE:	
General Office	2,279 28
Controlling and Audit Branch	249 63
Barkerville Sub-agency	197 40
Fernie Agency	138 36
New Westminster Agency	261 38
Prince Rupert Agency	84 92
Quesnel Agency	19 90
Smithers Agency	1,047 33
Vancouver Agency	430 42
Vernon Agency	282 83
Wilmer Sub-agency	172 99
Sundry Sub-agencies	58 97
Premium on Fire Insurance, Fairview Works	77 43
DEPARTMENT OF LANDS:	
Photo-topographical Surveys	762 85
DEPARTMENT OF MINES:	
General Office	347 30
DEPARTMENT OF THE PROVINCIAL SECRETARY:	
Provincial Board of Health	6,193 77
Provincial Library and Archives	206 68
"Public Libraries Act"	56 06
Carried forward	$ 43,255 03

SERVICE.	Amount.
Brought forward	$ 43,255 03
DEPARTMENT OF THE PROVINCIAL SECRETARY—*Continued.*	
Colony Farm and Nursery, Essondale	6,729 55
Provincial Home, Kamloops	1,529 66
In Aid of Destitute Poor and Sick	1,681 68
In Aid of Resident Physicians	1,794 31
King's Printer	6,415 25
DEPARTMENT OF PUBLIC WORKS:	
Maintenance of Government House and Grounds	1,390 11
District Engineers	2,722 43
CAPITAL ACCOUNT:	
Industrial School and Boys' Subnormal School Building	15,888 20
Mental Hospitals, New Westminster, Essondale, and Colony Farm	4,226 81
Technical School	6,052 33
Total	$ 91,685 36

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

REPORT

OF THE

COMPTROLLER-GENERAL

OF THE PROVINCE OF

BRITISH COLUMBIA

1921-1922

PURSUANT TO THE PROVISIONS OF THE "AUDIT ACT,"
CHAPTER 7, 7 & 8 GEO. V.

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

To His Honour WALTER CAMERON NICHOL,

Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour statements of the Comptroller-General pursuant to the provisions of the "Audit Act," chapter 7, 7 & 8 George V.

Respectfully submitted.

JOHN HART,

Minister of Finance.

Treasury Department,

Victoria, October 18th, 1921.

VICTORIA, October 18th, 1921.

Hon. John Hart,

Minister of Finance.

SIR,—I have the honour to submit for the information of the Legislative Assembly, pursuant to the provisions of the "Audit Act," chapter 7, 7 & 8 George V., as follows:—

(A.) Statement of Treasury Board Overrulings (pursuant to section 31).

(B.) Statement of Expenditures on Services which have exceeded their Appropriations (pursuant to subsection (*b*) of section 32).

(C.) Statement of Payments charged against the 1921–22 Appropriations which did not occur within the Period of the Account (pursuant to subsection (*e*) of section 32).

(D.) Statement of Special Warrants issued (pursuant to subsection (*b*) of section 24).

(E.) (1.) Statement showing the Revenue for the First Six Months of the Present Fiscal Year, viz., from 1st April to 30th September, 1921.

(2.) Statement showing the Expenditure for the First Six Months of the Present Fiscal Year, viz., from 1st April to 30th September, 1921.

(3.) Statement showing Expenditures and Advances out of Moneys raised by Loan under Authority of the Legislature for Specific Purposes, 1st April to 30th September, 1921 (pursuant to subsection (*a*) of section 42).

I have the honour to be,

Sir,

Your obedient servant,

A. N. MOUAT, C.A.,

Comptroller-General.

COMPTROLLER-GENERAL'S REPORT.

(A.)

TREASURY BOARD OVERRULINGS.

Nil.

(B.)

UNPROVIDED ITEMS IN EXPENDITURE FOR THE FISCAL YEAR ENDED 31ST MARCH, 1921.

STATEMENT of Expenditures on Services which have exceeded their Appropriations from 1st April, 1920, to 31st March, 1921, and for which Overexpenditure the Sanction of Parliament is required.

Vote No.	Service.	Total Appropriation.	Total Expenditure.	Overexpended.
	DEPARTMENT OF AGRICULTURE.			
15	Tubercular Cattle—Compensation, etc.	$ 37,500 00	$ 37,598 51	$ 98 51
18	Farmers' Institutes, etc.	11,000 00	11,017 22	17 22
	DEPARTMENT OF THE ATTORNEY-GENERAL.			
35	Attorney-General's Office	12,310 00	12,414 95	104 95
38	Municipal Branch	7,040 00	7,085 35	45 35
53	Supreme and County Court, Ladysmith	470 00	476 70	6 70
54	Supreme and County Court, Nelson	2,535 00	2,544 29	9 29
58	Supreme and County Court, Victoria	29,867 00	30,365 25	498 25
60	Provincial Police	411,900 00	434,971 06	23,071 06
62	Oakalla Prison Farm	74,835 00	74,963 53	128 53
64	Girls' Industrial School	29,975 00	31,503 95	1,528 95
70	Expenses of Inquests	6,000 00	6,101 87	101 87
74	Game Protection	40,000 00	44,776 85	4,776 85
	DEPARTMENT OF FINANCE.			
101	General Office	32,156 00	34,435 28	2,279 28
103	Controlling and Audit Branch	52,650 00	52,899 63	249 63
111	Barkerville Sub-agency	4,348 00	4,545 40	197 40
117	Fernie Agency	8,922 00	9,060 36	138 36
129	New Westminster Agency	25,915 00	26,176 38	261 38
134	Prince Rupert Agency	29,676 00	29,760 92	84 92
136	Quesnel Agency	26,525 00	26,544 90	19 90
140	Smithers Agency	16,836 00	17,883 33	1,047 33
143	Vancouver Agency	105,482 00	105,912 42	430 42
144	Vernon Agency	17,922 00	18,204 83	282 83
146	Wilmer Sub-agency	2,248 00	2,420 99	172 99
148	Sundry Sub-agencies	2,640 00	2,698 97	58 97
154	Premium on Fire Insurance, Fairview Works	840 00	917 43	77 43
	DEPARTMENT OF LANDS.			
175	Photo-topographical Surveys	29,000 00	29,762 85	762 85
	DEPARTMENT OF MINES.			
198	General Office	19,702 00	20,049 30	347 30
	DEPARTMENT OF THE PROVINCIAL SECRETARY.			
209	Provincial Board of Health	67,030 00	73,223 77	6,193 77
210	Provincial Library and Archives	20,520 00	20,726 68	206 68
211	"Public Libraries Act"	8,100 00	8,156 06	56 06
215	Colony Farm and Nursery, Essondale	91,152 00	97,881 55	6,729 55
217	Provincial Home, Kamloops	42,945 00	44,474 66	1,529 66
221	In Aid of Destitute Poor and Sick	25,000 00	26,681 68	1,681 68
222	In Aid of Resident Physicians	10,000 00	11,794 31	1,794 31
224	King's Printer	247,247 48	253,662 73	6,415 25
	DEPARTMENT OF PUBLIC WORKS.			
246	Maintenance of Government House and Grounds	19,400 00	20,790 11	1,390 11
247	District Engineers	58,680 00	61,402 43	2,722 43
	CAPITAL ACCOUNT.			
261	Industrial School and Boys' Subnormal School Building	250,000 00	265,888 20	15,888 20
267	Mental Hospitals, New Westminster, Essondale, and Colony Farm	81,000 00	85,226 81	4,226 81
271	Technical School	175,000 00	181,052 33	6,052 33
		$2,134,368 48	$2,226,053 84	$ 91,685 36

(C.)

STATEMENT OF PAYMENTS CHARGED AGAINST THE 1921–22 APPROPRIATIONS WHICH DID NOT OCCUR WITHIN THE PERIOD OF THE ACCOUNT.

Vote No.	Date of Service.	Name.	Particulars.	Amount.
5	Feb.–Mar., 1921.	Curror, J. A.	Rent of office, Salmon Arm	$ 19 35
5	Jan.–Mar., 1921.	Okanagan Telephone Co.	Rental and tolls	28 75
5	March, 1920	Little & Taylor	Repairs to clock	2 00
7	March, 1921	Wilkerson, G. E.	Marine information and inspection expenses	153 25
7	March, 1921	Grigor, R. W.	Inspection fees	8 50
8	Feb., 1921	Nicol, A.	Hauling	1 00
18	Jan., 1921	Lee, R. H.	Rent of office, Kamloops	25 00
22	July, 1920	Jeune, F. & Bro., Ltd.	Repairs to tent	19 55
48	Dec., 1920	Fourth Avenue Heating & Plumbing Works	Reel cabinets, etc.	270 00
49	Sept., 1920	Stroup, A. B.	McLaughlin car	1,450 00
49	August, 1920	Morrison, W. H.	Indian motor-cycle	362 50
49	Oct., 1920	Crawford Battery Co.	Battery	48 00
49	Sept., 1920	Junction Auto Filling Station	5 gallons gas	2 15
49	Oct., 1920	P.O. Gasoline Station	1 quart oil	35
49	Aug.–Oct., 1920	Agent No. 9	Expenses, secret service work	242 05
50	Nov.–Dec., 1920	Potter, A. H. (Miss)	Salary	80 00
67	Oct., 1920	Little & Taylor	Repairs to clock	3 00
69	Dec., 1920	Government Telegraph Service.	Messages	62
69	March, 1921	Smith, C. J.	Repairs and supplies for launch	8 90
69	Nov., 1920	Haddock, A. W.	Auto-hire	50 00
69	Sept.–Oct., 1920	Darlington, A. D.	Launch-hire	57 00
69	April, 1920 to March, 1921	Eburne Saw Mills	Wharfage, launch "Watla"	48 00
69	Dec., 1920, to March, 1921	Western Canadian Ranching Co.	Wintering horses	38 75
69	Jan., 1921	Hasler, F. C.	Oats and hay	131 75
69	Sept.–Oct., 1920	Gunderson, Hans	Travelling expenses	36 00
69	Jan.–Mar., 1921.	Young, R. D.	Food allowance	63 00
69	Feb.–Mar., 1921	Spencer, B. A.	Services as Special Constable	38 50
69	Dec., 1920	Hoy, C. D.	Fee as interpreter	5 00
69	Nov., 1920	Dawson, C. H.	Freight and cartage on piano	24 71
69	Aug.–Dec., 1920	Taylor Engineering Co.	Rent of lock-up	75 00
69	March, 1920	City of Prince Rupert	Meals for prisoners	15 00
69	August, 1920, to March, 1921	Arbuckle & Baldwin, Drs.	Professional services	32 00
69	March, 1921	Tisdall's, Ltd.	Handcuff-keys	3 05
69	March, 1921	McGee, R. H.	Auto-hire	8 00
69	Oct., 1920	Jackson, C. H.	Preparing lease	5 00
69	Nov., 1920	Eggleshaw, J. P.	Travelling expenses	55 25
69	Feb., 1921	United Typewriter Co.	Repairs	9 00
69	Feb., 1921	Pacific Mills, Ltd.	Messages	12 08
69	Jan., 1921	McIntosh, J. W.	Salary	100 00
69	Feb.–Mar., 1921.	Christensen, A. C.	Sewer-pipe, etc.	33 65
69	March, 1921	Masset Timber Co., Ltd.	Coal	2 00
71	June, 1920	Crosby, R., Dr.	Professional services	5 00
72	July, 1920	McKay, J. G., Dr.	Professional services	30 00
72	March, 1920	Wilson, B. H., Dr.	Professional services	5 00
75	Dec., 1920	Rex *v.* Haller	Witness fees	69 25
75	Oct.–Nov., 1919	Rex *v.* Copal Singh *et al*	Witness fees	8 00
75	March, 1921	Blackwood, H.	Witness fees	3 50
76	Oct.–Nov., 1920	London Grill, Ltd.	Meals for jurors	120 35
78	Jan., 1921	Henderson, G. B.	*Re* J. M. Frame	14 00
78	Nov., 1920	Nash, A. C., Dr.	*Re* Louie George	61 00
80	Feb., 1919, to August, 1920	King, Chas.	*Re* Estate of T. A. McDonald	30 25
80	June–Nov., 1920.	Tiffin & Alexander	*Re* Rex *v.* Nelson	50 00
81	March, 1921	Heckmiller, F.	Travelling expenses	5 35
81	Feb.–Mar., 1921	Dafoe, V. M.	Hauling and lay days, launch "Rip-Rap"	133 00
81	Nov., 1919	Jeune, F. & Bro., Ltd.	2 Indian tepees and express	82 95
92	Jan., 1921	Ogden Bros. Wood Yard	Manure	24 50
92	March, 1921	Vancouver Lumber Co.	Lumber	7 05
92	March, 1921	Hollingsworth, H. J.	Team-hire	12 00
92	March, 1921	Johnston Storage Co., Ltd.	Coal	138 60
92	March, 1921	B.C. Electric Railway Co., Ltd.	Light and power	31 32
92	March, 1921	Ireland & Allan	Subscriptions to periodicals	42 90
92	Feb., 1921	World Book Company	Books	5 37
92	March, 1921	Gunn, J. G.	Wheelbarrow, etc.	16 40
92	March, 1921	Burns Drug Co.	Supplies	9 00
92	March, 1921	City Chimney Sweeping Co.	Cleaning Chimneys, etc.	23 50
100	March, 1921	Municipality of Penticton	Grant *re* school building	17,943 37
104	Feb.–Mar., 1921	City of Grand Forks	Grant *re* conveying children	84 55
104	Feb.–Mar., 1921	Trustees, Naramata School Board	" "	47 50

STATEMENT OF PAYMENTS CHARGED AGAINST 1921-22 APPROPRIATIONS—*Continued.*

Vote No.	Date of Service.	Name.	Particulars.	Amount.
104	Nov., 1920 to March, 1921 ..	Municipality of Surrey	Grant *re* conveying children	$ 847 75
104	Feb.–Mar., 1921 .	Municipality of Kent	" "	218 40
104	March, 1921	City of Armstrong	" "	101 25
104	March, 1921	City of Duncan	" "	311 40
104	Feb.–Mar., 1921 .	Municipality of Saanich	" "	295 00
104	March, 1921	Trustees, Merville School Dist.	" "	28 00
104	Feb.–Mar., 1921 .	Municipality of Langley	" "	272 00
104	Jan.–Feb., 1921 .	Municipality of Mission	" "	401 00
104	March, 1921	Municipality of Summerland ..	" "	315 90
104	Feb.–Mar., 1921 .	Municipality of Maple Ridge..	" "	225 00
104	March, 1921	Trustees, Beaver Creek School District	" "	45 00
112	March, 1921	Stege, Henry	Commission on collections	34 75
112	March, 1921	Steele, W. B.	" "	2 20
112	Nov., 1920 to March, 1921 ..	Greenwood, G. H.	" "	30 00
112	March, 1920	Hill, D. J.	" "	6 25
112	Sept., 1920	Archibald, R. F.	" "	2 45
114	Feb., 1921	Heaton's Agency	Book	5 08
115	March, 1921	Durham, Mabel	Lectures	48 50
122	Dec., 1920	Higgins, Grace	Increase in salary	7 50
123	July, 1920	Cooke, J. W.	Stamps	25 00
132	Oct., 1920, to March, 1921 ..	Collins, J. V.	Increase in salary	60 00
140	March, 1921	Postmaster, Smithers	Stamps	10 00
142	March, 1921	Norris, W. H. L.	Travelling expenses	36 15
151	April–Sept., 1919	Menendez, M. E.	Increase in salary	26 50
156	Oct., 1920, to March, 1921 ..	Postmaster, Stewart	P.O. Box-rent	10 00
162	Feb.–Mar., 1921 .	Spencer, C.	Keep of horses	226 75
175	Oct., 1920	Macey-Abell Co., Ltd.	2 elm filing-cases	66 70
175	Feb., 1921	Hughes-Owens Co., Ltd., The..	Blue-print papers	115 00
175	Aug., 1920	McKerns, R. E.	Travelling expenses	35 00
175	Oct., 1919	Powell River Co., Ltd., ...	Distillate	47 60
175	June, 1920	Dept. of Militia and Defence..	Blankets	120 00
175	June, 1920	Pacific Mills, Ltd.	Window-shades, etc.	16 25
175	Sept., 1920	Powell River Co., Ltd.	Cups, etc.	4 15
175	Oct., 1920	National Drug & Chemical Co.	Supplies	39 75
175	Nov., 1920	Akerberg, Thomson & Co.	Supplies, launch "Geraldine R"	9 20
175	March, 1921	Central Garage	Repairs & supplies, car No. 0228265	210 30
175	Dec., 1920, to March, 1921 ..	Anderson, A. R.	Supplies, car No. 238596	11 40
175	August, 1920 ...	Kemp, G.	Repairs, launch "Ethel"	5 00
188	Nov., 1920	"Farm and Home"	Advertising synopsis of "Land Act"	62 35
189	Dec., 1920 to March, 1921 ..	Sundry persons	Furnishing information *re* settlers	73 00
198	Jan., 1921	B.C. Telephone Co.	Moving telephone	1 50
200	March, 1921	Compressed Gas Co., Ltd.	Filling oxygen supply tanks	21 19
204	Oct., 1920	Cowie, A.	Clearing trail, Mount Buttle	201 50
204	April, 1919	Heyland, A. R.	Survey of Idaho Landing—Porcupine Flats Road	50 00
204	May–June, 1920 .	Dempster, Wm.	Labour, Toby Creek Trail	78 00
204	June–July, 1920 .	Poyntz, J. A.	Labour, Utica Road	99 75
204	June–July, 1920 .	McLellan, D. S.	Labour, Utica Road	69 50
204	Oct., 1920	Sundry persons	Labour, North Fork of Carpenter Creek Road	567 00
209	Feb., 1921	Manning, F. W., Dr.	Professional services	94 00
209	Dec., 1920	Wrinch, H. C., Dr.	"	24 00
209	Nov., 1920	Henderson, A., Dr.	"	15 00
209	Nov., 1920	MacNaughton, G. K., Dr.	"	13 50
209	Feb., 1921	McCallum, J. S., Dr.	"	10 00
209	March, 1921 ...	McPhee, T. J., Dr.	"	38 00
209	June, 1920	Green and MacKinnon, Drs. ...	"	167 00
209	March, 1921 ...	Irving, Murphy, & Willoughby, Drs.	"	61 50
209	Dec., 1920	Gray, A. A., Dr.	"	76 50
209	Aug.–Sept., 1920.	Maclean, C. G. G., Dr.	"	8 00
209	Nov., 1920, to March, 1921 ..	Morgan, A. D., Dr.	"	29 00
209	March, 1921	Sutherland, E. M., Dr.	"	17 50
209	Nov., 1920 to March, 1921 ..	Inglis, F., Dr.	"	83 00
209	Oct., 1920, to March, 1921 ..	Walls, J. H. (Mrs.)	"	75 00
209	Jan.–Feb., 1921 .	Covert, Fred (Mrs.)	Nursing Carl Schultz	75 00
210	1912 to 1914 ...	Hiersemann, K. W.	Books	385 27
213	Mar.–May, 1920 .	Taylor, Harry	Transportation of insane patient..	448 90
221	March, 1921	Goodeve, J. H.	Supplies furnished S. Castano	2 15
221	Jan.–Mar., 1921 .	McGettigan Bros.	Supplies furnished D. McDonald ..	20 00
223	March, 1921 ...	Center & Hanna, Ltd.	Funeral expenses, P. J. Murphy ...	50 00
226	July, 1920	Atkinson, H. G.	Salary and expenses	254 45
227	Jan., 1920	Vancouver Daily Province ...	Papers	3 45
Stat.	Dec., 1920	Mortimer, E. H.	Additional expenses, Prince Rupert Electoral District	15 13
240	March, 1921 ...	United Typewriter Co., Ltd. ..	Overhauling machine No. 368829-5.	10 35

STATEMENT OF PAYMENTS CHARGED AGAINST 1921–22 APPROPRIATIONS—*Continued.*

Vote No.	Date of Service.	Name.	Particulars.	Amount.
241	March, 1921	Dominion Express Co.	Express charges	3 60
242	March, 1921 ...	The Colonist	Advertising tenders for coal	14 00
242	March, 1921 ...	Prior, E. G., & Co., Ltd.	Glue and casters	2 03
242	Feb., 1921	Morrison, Jas.	Sharpening picks, etc.	30 05
242	Aug., 1920	B.C. Telephone Co.	Arrears, long-distance tolls	450 00
243	Sept., 1920, to Feb., 1921	Coulson, Wm., & Sons	Linen	1,235 55
243	March, 1921	Evans, Colmean & Evans, Ltd.	2 tons lime	$ 17 00
243	March, 1921 ...	Morrison, Jas.	Shutters and fittings for picture-booth	20 00
248	Sept., 1920 to March, 1921 ..	Boswell, W. J.	Rent of warehouse	21 00
248	March, 1921 ...	The Daily News, Nelson	Publishing notices	11 45
248	March, 1921 ...	Wheldon, T. J.	Labour, Comox District	27 62
248	March, 1921 ...	Smith, Cecil	,, ,, ...	10 37
248	Jan., 1921	Sundry persons	,, ,, ...	10 62
248	Oct., 1920	Harwood, F.	,, ,, ...	6 00
248	Nov., 1919	Fraser & Horne	Nails, Comox District	60
248	Sept.–Nov., 1919.	Sacht, H. Otto	Hardware, Comox District	18 50
248	Sept., 1919	Canadian Explosives, Ltd.	Freight charges, etc., Comox Dist..	8 69
248	Feb., 1921	McLoughlin Bros.	Goodyear tire	22 77
248	Feb.–Mar., 1921 .	McKenzie, J. W., & Son	Blacksmithing, Comox District ...	7 90
248	Nov., 1920	Sointula Co-op. Stores, Ltd....	Hardware, Comox District	2 50
248	Dec., 1919, to Feb., 1920	Ollinger, P.	Lumber, Cutbank Bridge	140 15
248	Dec., 1920, to Jan., 1921 ...	Trodden, R.	Board account, Yale District	78 63
248	March, 1921	Maple Ridge Lumber Co., Ltd..	Lumber, McKenny Creek Bridge ..	30 71
248	Nov., 1920	Alanson, H.	Sash and building-paper	5 00
248	March, 1921	Wood, Vallance & Leggat	Cable	9 44
248	Feb., 1921	Bain, P.	Lumber, Dewdney Bridge	15 55
248	Oct., 1920	Green Bros., Burden & Co. ...	Bridge-site survey, Fire Valley ...	55 00
248	June, 1920, to Jan., 1921	Goard Motors, A. S., Ltd.	Supplies and repairs to Ford truck	68 81
248	March, 1921	McKenzie, J. B.	Travelling expenses	12 60
248	March, 1921	Teta, Elia	Expropriation of land for right-of-way	50 00
248	Jan., 1919	Fernie Garage	Repairs	48 40
248	Nov., 1920	Giant Powder Co., Ltd.	Freight	5 00
248	May, 1919	Imperial Oil, Ltd.	1 steel barrel No. 8341	15 00
248	Aug., 1919	McGeachy, E. C.	Provisions, Hulatt North Road ...	44 99
248	May, 1919	Canadian Explosives, Ltd.	Freight	169 97
248	May, 1919	Hudson's Bay Co.	Hardware, etc.	151 27
248	March, 1921	Daily News, Nelson	Advertising	15 40
248	March, 1921	Revelstoke Review Publishing Co.	Advertising	7 20
248	Feb.–Mar., 1921.	Hunter, James	Repairs	7 00
248	March, 1921	Jeune & Bro., F., Ltd.	Tents	116 85
249	Nov., 1920	Yarrows, Ltd.	*Re* Agassiz–Rosedale Ferry	500 00
249	August, 1919 ...	Northern Hardware Co.	Rope	11 44
249	June, 1920, to March, 1921 ..	Canadian Oil Companies, Ltd.	Gasolene	107 39
249	June, 1920	Witt, A. H.	Labour	2 12
251	June, 1918	Great Northern Railroad	Work-train service, etc.	6 96
251	March, 1921 ...	Anderson & Lusby	Solder, etc.	5 34
251	Sept., 1920	Canadian National Railways ..	Gravelling	4,440 70
251	Feb., 1921	Grant, J. R.	Travelling expenses	25 40
251	March, 1921	Imperial Oil, Ltd.	Coal-oil	12 59
251	Feb., 1920	U.S. Railway Administration..	Renewing ties, etc.	318 60
Stat.	April, 1919	Canadian Explosives, Ltd.	Freight	64 85
Stat.	Nov., 1920	Kootenay Garage	Repairs to car	302 20
Stat.	Aug., 1920	Nelson Iron Works, Ltd.	Repairs to governor	62 25
Stat.	Dec., 1920, to Jan., 1921	Clarke & Stuart Co., Ltd., The	Tracing-cloth, etc.	238 20

(D.)

STATEMENT OF SPECIAL WARRANTS ISSUED BETWEEN THE SESSIONS OF FEBRUARY, 1921, AND OCTOBER, 1921.

Date of Approval.	No. of Warrant.	Service.	Amount of Warrant.	Expenditure.
		TO MEET EXPENDITURE FOR THE FISCAL YEAR ENDING 31ST MARCH, 1922.		
		CURRENT ACCOUNT.		
		DEPARTMENT OF AGRICULTURE.		
May 23, 1921	2	Grant to British Columbia Berry-growers' Association	$ 1,000 00	$ 608 96
		DEPARTMENT OF THE ATTORNEY-GENERAL.		
June 1, 1921	4	Payment of value of effects taken in charge by late Sheriff Tuck and never accounted for by him.....	186 45	186 45
June 8, 1921	6	Administration of "Infants Act" and "Mothers' Pensions Act"	1,000 00	.....
June 30, 1921	8	Censor of Moving Pictures	150 00	.....
		DEPARTMENT OF EDUCATION.		
Aug. 24, 1921	12	Industrial education	1,500 00	.....
Aug. 24, 1921	12	Examination of teachers and High School Entrance classes	2,500 00	2,336 08
		DEPARTMENT OF LABOUR.		
May 20, 1921	1	Relief of destitution in Provincial municipalities...	25,000 00	23,717 23
July 4, 1921	7	Employment service	2,500 00	.....
		DEPARTMENT OF LANDS.		
July 20, 1921	10	Repurchase of Lot 164, Sayward District, Crown-granted in error, October 20th, 1910	8,881 40	8,881 40
		DEPARTMENT OF THE PROVINCIAL SECRETARY.		
May 31, 1921	3	Royal Commissions	10,000 00	5,110 39
July 22, 1921	11	Expenditures in connection with the change in the Rule of the Road	3,000 00	2,714 65
Sept. 29, 1921	13	Grant towards cost of Matsqui drainage-works	60,000 00	60,000 00
		CAPITAL ACCOUNT.		
June 1, 1921	5	Supplementing amount available for loans under the "Better Housing Act"	6,950 00	6,950 00
July 14, 1921	9	Girls' Industrial School	4,115 50	4,275 50
			$126,783 35	$114,780 66

(E.)

(1.)

STATEMENT SHOWING THE REVENUE FOR THE FIRST SIX MONTHS OF THE PRESENT FISCAL YEAR, VIZ., FROM 1ST APRIL TO 30TH SEPTEMBER, 1921.

Estimated for 12 Months ending 31st March, 1922.	Service.	Revenue for 6 Months ended 30th September, 1921.	
	CURRENT ACCOUNT.		
	Department of Agriculture:		
$ 28,000 00	Horticultural inspection fees and licences	$ 9,255 76	
10,500 00	Seed-grain advances refunds	450 50	
2,500 00	Miscellaneous	3,588 96	
$ 41,000 00			$ 13,295 22
	Department of the Attorney-General:		
$ 50,000 00	Court fees and fines	$ 29,067 82	
1,500 00	Dog licences	1,824 90	
200,000 00	"Game Act"—Fees and licences	78,480 63	
85,000 00	"Insurance Act"—Licences, taxes, and fees	74,098 96	
75,000 00	Joint-stock Companies, etc.—Registration fees	43,800 95	
20,000 00	Keep of prisoners—Reimbursement	11,415 00	
375,000 00	Land Registry fees	177,881 13	
90,000 00	Law stamps	36,342 07	
750,000 00	"Motor-vehicle Act"—Fees	151,133 52	
17,500 00	"Moving Pictures Act"—Fees	3,595 73	
.....	"Prohibition Act"—Profit on liquor sold, etc.	264,481 03	
2,500,000 00	"Government Liquor Act"—Profit on liquor sold, etc.	121,034 00	
20,000 00	Sheriffs' fees	10,063 10	
25,000 00	Trade licences	13,437 50	
30,000 00	Miscellaneous receipts	13,637 06	
$ 4,239,000 00			1,030,293 40
	Department of Education:		
$ 4,000 00	Examinations fees	$ 6,528 15	
2,500 00	Teachers' examinations and certificates	2,115 50	
66,000 00	Technical school	12,000 00	
1,500 00	Text-books sold	443 32	
.....	Miscellaneous receipts	296 35	
$ 74,000 00			21,383 32
	Department of Finance:		
	Dominion of Canada:		
$ 29,151 06	Annual interest	$ 14,575 53	
180,000 00	Annual subsidy	90,000 00	
313,984 00	Annual grant *per capita*	156,992 00	
100,000 00	Annual grant for lands conveyed	50,000 00	
$ 623,135 06		$311,567 53	
350,000 00	Amusements tickets tax	166,340 62	
220,000 00	Coal and coke tax	82,969 98	
2,000,000 00	Income tax	2,551,443 17	
	Interest:		
19,080 07	"Dyking Assessments Adjustment Act"	.....	
305,000 00	Sinking fund investments	89,850 37	
300,000 00	Miscellaneous	211,245 52	
	Land taxes:		
1,050,000 00	Real property	774,758 84	
975,000 00	Wild land, coal and timber lands	595,281 45	
135,000 00	Mineral-tax	50,960 99	
860,000 00	Personal-property tax	550,004 35	
235,000 00	Poll-tax	108,080 00	
75,000 00	Probate fees	37,972 85	
	Rents:		
51,200 00	B.C. House, London, England	7,728 00	
200 00	Miscellaneous rents	85 00	
6,000 00	Revenue service refunds	769 25	
220,000 00	Rural district school-taxes	231,859 66	
700,000 00	Succession duties	153,912 46	
50,000 00	Unworked Crown-granted mineral claims—Taxes	39,169 95	
200,000 00	Miscellaneous receipts	268,885 67	
$ 8,374,615 13			6,232,885 66
	Carried forward		$ 7,297,857 60

STATEMENT OF REVENUE FOR THE FIRST SIX MONTHS OF THE PRESENT FISCAL YEAR—*Continued.*

Estimated for 12 Months ending 31st March, 1922.	Service.	Revenue for 6 Months ended 30th September, 1921.	
	CURRENT ACCOUNT—*Continued.*		
	Brought forward		$ 7,297,857 60
	Department of Fisheries:		
$ 30,000 00	Fishing and cannery licences, etc.	.....	26,961 50
	Department of Labour:		
$ 35,000 00	Dominion of Canada, subvention	.....	11,182 25
	Department of Lands:		
$ 20,000 00	Grazing rentals, leases, and fees	$ 7,479 77	
100,000 00	Land revenues—Sundry	82,405 44	
550,000 00	Land sales	253,172 31	
11,000 00	Survey fees and sale of maps	6,444 80	
65,000 00	Timber leases	41,078 67	
1,350,000 00	Timber licences	565,667 70	
300,000 00	Timber sales	192,720 08	
950,000 00	Timber royalties	495,473 66	
60,000 00	Water rentals and recording fees	37,881 54	
10,000 00	Miscellaneous receipts	8,630 43	
$ 3,416,000 00			1,690,954 40
	Legislation:		
$ 2,000 00	Private Bills fees	.....	.....
	Department of Mines:		
$ 1,000 00	Bureau of Mines	$ 421 50	
61,000 00	Free miners' certificates	50,082 25	
1,000 00	Miners' examinations and certificates	501 50	
100,000 00	Mining receipts, general	50,289 56	
$ 163,000 00			101,294 81
	Department of the Provincial Secretary:		
$ 15,000 00	Colony Farm	$ 1,187 38	
14,480 00	Dominion grant, venereal disease	.....	
225,000 00	King's Printer	136,131 02	
14,000 00	Marriage licences	10,175 00	
90,000 00	Mental Hospitals	39,038 54	
3,000 00	Notaries Public and Commissioners' fees	1,740 15	
2,000 00	Provincial Home, Kamloops	10,556 70	
155,000 00	Tranquille Sanatorium	127,734 61	
3,000 00	Vital statistics, etc.	2,076 09	
1,000 00	Miscellaneous receipts	6,584 91	
$ 522,480 00			335,224 40
	Department of Public Works:		
$ 32,000 00	Boiler inspections and examinations fees	$ 16,554 32	
4,500 00	Electrical energy inspection	1,108 30	
18,000 00	Ferry tolls	11,107 50	
7,500 00	Government property sold	2,176 86	
4,000 00	Wharfage and dock dues	2,535 89	
500 00	Miscellaneous receipts	2,633 59	
$ 66,500 00			36,116 46
	Department of Railways:		
$ 4,000 00	Inspection fees	$ 1,478 90	
40,000 00	New Westminster Bridge—Tolls	21,013 50	
3,000 00	Miscellaneous receipts	44 36	
$ 47,000 00			22,536 76
$17,010,595 13	Total, Current Account	.....	$ 9,522,128 18
	CAPITAL ACCOUNT.		
	(Refund of Capital Expenditures out of Income.)		
	Pacific Great Eastern Railway Co.—Refund of moneys advanced under Special Warrant No. 36, 1920–21	.....	750,000 00
$17,010,595 13	Total Revenue	.....	$10,272,128 18

(E.)

(2.)

STATEMENT SHOWING THE EXPENDITURE FOR THE FIRST SIX MONTHS OF THE PRESENT FISCAL YEAR, VIZ., FROM 1ST APRIL TO 30TH SEPTEMBER, 1921.

Estimated for 12 Months ending 31st March, 1922.	No. of Vote.	Service.	Expenditure for 6 Months ended 30th September, 1921.	
		CURRENT ACCOUNT.		
$ 2,829,633 08	1	Public Debt		$ 1,933,987 18
$ 109,870 00	2	Legislation		187 80
$ 13,680 00	3	Premier's Office		6,849 36
		Department of Agriculture:		
$ 11,440 00	4	Minister's Office	$ 6,416 85	
34,936 00	5	General Office	18,250 66	
93,540 00	6–11	Horticultural Branch	45,496 94	
73,462 00	12–16	Live Stock Branch	33,458 52	
4,720 00	17	Statistics	1,327 98	
16,270 00	18	District Agriculturists, etc.	4,565 26	
3,200 00	19	Workshop and Shipping Office	1,440 00	
149,150 00	20–43	Miscellaneous Grants, etc.	81,741 68	
.....	.....	Statutory and Special Warrants	732 91	
$ 386,778 00				193,430 80
		Department of the Attorney-General:		
$ 11,810 00	44	Attorney-General's Office	$ 7,019 07	
26,940 00	45	General Office	11,090 74	
26,010 00	46	Joint-stock Companies and Insurance Branch	11,819 53	
7,140 00	47	Municipal Branch	3,480 41	
15,522 00	48	Censor of Moving Pictures	6,474 44	
6,580 00	49	"Prohibition Act"—Administration	7,664 08	
29,806 00	50–52	Sheriffs' Offices	11,470 51	
2,740 00	53	Official Guardian	1,133 25	
7,290 00	54	Legal Offices Branch	3,320 55	
210,304 00	55–60	Land Registry Offices	88,998 77	
83,349 00	61–68	Supreme and County Courts	35,723 20	
400,601 00	69	Provincial Police	132,316 25	
119,385 00	70–71	County Gaols	30,958 44	
30,050 00	72	Industrial Schools	11,658 99	
43,680 00	73	"Infants Act" and "Mothers' Pensions Act"—Administration	22,773 05	
48,000 00	74	"Motor-vehicle Act"—Administration	8,261 84	
190,000 00	75–86	Miscellaneous Votes	86,874 74	
400,000 00	86A	"Mothers' Pensions Act"	242,731 50	
.....	.....	Statutory	5 00	
$ 1,659,207 00				723,774 36
		Department of Education:		
$ 29,152 00	87	General Office	$ 15,875 83	
94,880 00	88	Free Text-book Branch	59,209 77	
29,280 00	89	Agricultural Education	14,527 36	
96,270 00	90	Industrial Education	27,747 58	
75,880 00	91	Inspection of Schools	31,231 77	
82,315 00	92–93	Normal Schools	32,589 32	
47,600 00	94	Deaf, Dumb, and Blind	13,171 78	
1,207,500 00	95–97	*Per Capita* Grants	326,541 23	
560,000 00	98–99	Teachers' Salaries	160,881 25	
400,000 00	100	School Buildings	157,717 44	
50,350 00	101–106	Miscellaneous Votes	38,776 37	
445,000 00	107	University of British Columbia	222,499 98	
300,000 00	107A	Rural District School Taxes	150,510 42	
$ 3,418,227 00				1,231,280 10
		Department of Finance:		
$ 12,820 00	108	Minister's Office	$ 5,878 75	
37,796 00	109	General Office	19,588 08	
14,830 00	110	Inspector of Trust Companies, Probate and Succession Duties	4,164 12	
53,720 00	111	Controlling and Audit Branch	26,892 73	
121,512 00	112	Surveyor of Taxes	43,039 32	
6,320 00	113	"Amusements Tax Act"—Operation	1,441 43	
$ 246,998 00		*Carried forward*	$101,004 43	$ 4,089,509 60

STATEMENT OF EXPENDITURE FOR THE FIRST SIX MONTHS OF THE PRESENT FISCAL YEAR—*Continued.*

Estimated for 12 Months ending 31st March, 1922.	No. of Vote.	Service.	Expenditure for 6 Months ended 30th September, 1921.	
		CURRENT ACCOUNT—*Continued.*		
$ 246,998 00		*Brought forward*	$101,004 43	$ 4,089,509 60
		Department of Finance—*Continued.*		
34,872 00	114	Bureau of Information	3,270 03	
79,300 00	115	Agent-General's Office, London	14,391 78	
538,363 99	116–157	Government Agents and Assessors, etc....	169,734 06	
60,917 00	158–162	Miscellaneous Votes	20,952 36	
.....	.....	Statutory	61,204 39	
$ 960,450 99				370,557 05
$ 18,090 00	163	Department of Fisheries	.....	7,501 68
$ 28,300 00	164	Department of Industries	.....	5,511 80
		Department of Labour:		
$ 14,940 00	165	General Office	$ 4,567 83	
8,930 00	166	Minimum Wage Board	2,112 05	
72,870 00	167	Employment Service	20,843 21	
.....	.....	Special Warrant	23,717 23	
$ 96,740 00				51,240 32
		Department of Lands:		
$ 12,442 00	168	Minister's Office	$ 6,506 62	
34,220 00	169	General Office (Salaries)	17,049 96	
43,316 00	170	Lands Branch (Salaries)	21,302 84	
72,744 00	171	Survey Branch (Salaries)	33,662 78	
88,092 00	172	Water Rights Branch (Salaries)	42,121 17	
220,686 00	173	Forest Branch (Salaries)	126,325 32	
25,000 00	174	Temporary Assistance (Salaries)	1,831 30	
212,200 00	175	Expenses, General Office and Branches ..	87,809 58	
1,065,700 00	176–195	Miscellaneous Votes	228,185 15	
.....	.....	Statutory and Special Warrants	13,618 43	
$ 1,774,400 00				578,413 15
		Department of Mines:		
$ 10,565 00	196	Minister's Office	$ 5,452 13	
20,090 00	197	General Office	6,739 77	
40,300 00	198	Mines Inspection Branch	17,942 22	
16,530 00	199	Bureau of Mines	6,885 61	
13,645 00	200	Mine-rescue and Training Stations	7,479 35	
115,500 00	201–206	Miscellaneous Votes	35,059 45	
89,374 38	206A–206B	Mines and Mineral Development	.....	
.....	.....	Statutory	28,654 57	
$ 306,004 38				108,213 10
		Department of the Provincial Secretary:		
$ 9,560 00	207	Minister's Office	$ 5,346 27	
15,550 00	208	General Office	7,333 76	
90,610 00	209	Provincial Board of Health	47,099 04	
19,570 00	210	Provincial Library and Archives	11,945 19	
13,020 00	211	"Public Libraries Act"	5,039 45	
10,668 00	212	Provincial Museum	5,761 66	
730,546 00	213–216	Mental Hospitals	231,448 12	
47,145 00	217	Provincial Home, Kamloops	14,437 71	
478,250 00	218–223	Grants to Hospitals and Charities	168,482 19	
217,411 48	224	King's Printer	109,790 23	
15,340 00	225	Civil Service Commissioner	4,967 74	
748,500 00	226–239	Miscellaneous Votes	266,927 98	
.....	.....	Statutory	679 55	
$ 2,396,170 48				879,258 89
		Department of Public Works:		
$ 11,040 00	240	Minister's Office	$ 5,551 97	
64,924 00	241	Administration	31,912 25	
143,200 00	242	Parliament Buildings and Grounds	59,413 12	
22,820 00	243	Government House and Grounds	11,566 73	
66,040 00	244	District Engineers	21,338 02	
75,610 00	245	Steam-boiler Inspection	20,281 65	
8,590 00	246	"Electrical Energy Inspection Act"	2,480 10	
8,928 00	247	"Factories Act"	2,717 60	
2,241,100 00	248	Roads, Streets, Bridges, and Wharves ..	916,742 15	
261,556 00	249	Steamboats, Ferries, and Bridge-tenders..	65,441 29	
.....	.....	Special Warrants	2,714 65	
$ 2,903,808 00				1,140,159 53
		Carried forward		$ 7,230,365 12

STATEMENT OF EXPENDITURE FOR THE FIRST SIX MONTHS OF THE PRESENT FISCAL YEAR—*Continued.*

Estimated for 12 Months ending 31st March, 1922.	No. of Vote.	Service.	Expenditure for 6 Months ended 30th September, 1921.	
		CURRENT ACCOUNT—*Continued.*		
		Brought forward		$ 7,230,365 12
		Department of Railways:		
$ 24,600 00	250	General Office	$ 10,646 18	
50,000 00	251	New Westminster Bridge	25,672 87	
$ 74,600 00				36,319 05
		Current expenditures (charged to Income)	.....	$ 7,266,684 17
		CAPITAL ACCOUNT. (Expenditures out of Income.)		
$ 1,247,081 36	252	Sinking Funds	$696,796 72	
773,884 00	253	P.G.E. Rly. Co. (interest on Guaranteed Bonds)	288,347 85	
9,700 00	254	B.C. House, London, England	.....	
50,000 00	255	Songhees Reserve	221 87	
200,000 00	256	Johnson Street Bridge	38,165 61	
99,000 00	257	Industrial School and Boys' Subnormal School	45,728 10	
237,100 00	258	Mental Hospitals	19,554 64	
50,000 00	259	Tranquille Sanatorium	135 00	
25,000 00	260	Deaf, Dumb, and Blind School, Point Grey ..	.....	
200,000 00	261	Government Buildings, Prince Rupert	77,176 25	
25,000 00	262	Government Buildings, Pouce Coupe	.....	
23,000 00	263	Government Buildings, Williams Lake	.....	
19,000 00	264–265	Lock-ups throughout the Province	447 78	
.....	.....	Statutory and Special Warrants	312,430 39	
$ 2,958,765 36		Capital expenditures (charged to Income)	.....	1,479,004 21
$19,934,724 29		Total expenditures (charged to Income)	.....	$ 8,745,688 38

(E.)

(3.)

STATEMENT SHOWING EXPENDITURES AND ADVANCES OUT OF MONEYS RAISED BY LOAN UNDER AUTHORITY OF THE LEGISLATURE FOR SPECIFIC PURPOSES, 1ST APRIL TO 30TH SEPTEMBER, 1921.

Authority for Expenditure.	Service.	Expended for 6 Months ended 30th September, 1921.	
	CAPITAL ACCOUNT.		
"B.C. Loan Act, 1916"	Pacific Great Eastern Railway Co.	.....	$ 2,720 00
"B.C. Loan Act, 1917"	Land Settlement Board	.....	50,000 00
"B.C. Loan Act 1919":			
Section 7 (*a*)	Trunk Roads and Bridges	$ 58,285 80	
Section 7 (*b*)	Land Settlement Board	100,000 00	
Section 7 (*c*)	"Soldiers' Land Act, 1918"	2 22	
			158,288 02
"Better Housing Act, 1919"	Housing Loans	.....	318,550 00
"Department of Industries Act," 1919"	Industrial Development Fund	.....	60,000 00
"B.C. Loan Act, 1920":			
Section 7 (*a*)	Land Settlement Board	$340,000 00	
Section 7 (*b*)	"Soldiers' Land Act, 1918"	621 14	
Section 7 (*c*)	Conservation Fund	230,000 00	
			570,621 14
"B.C. Highway Loan Act, 1920"	Roads and Bridges	.....	725,743 74
"P.G.E. Construction Loan Act, 1921"	Pacific Great Eastern Railway Co.	.....	2,936,100 00
"B.C. Loan Act, 1921":			
Section 6 (*b*)	"Soldiers' Land Act, 1918"	$100,000 00	
Section 6 (*d*)	"Soldiers' Land Act, 1918"	211,548 97	
Section 6 (*e*)	Conservation Fund	150,000 00	
			461,548 97
	Total, Capital expenditures (Statutory)	.....	$ 5,283,571 87

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

REPORT

OF THE

MINISTER OF PUBLIC WORKS

OF THE

PROVINCE OF BRITISH COLUMBIA

FOR THE

FISCAL YEAR 1920-21

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

To His Honour WALTER CAMERON NICHOL,

Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

Herewith I beg respectfully to submit the Annual Report of my Department for the fiscal year ending March 31st, 1921, in compliance with the provisions of the "Public Works Act."

J. H. KING,

Minister of Public Works.

Department of Public Works,

Parliament Buildings,

Victoria, B.C., September 30th, 1921.

Dunster Bridge, Fort George District. Erection of 130-foot Howe-truss span by day-labour.

Fraser River Bridge, Dunster, Fort George Electoral District. Two 130-foot Howe-truss spans, pile piers and approaches. Built by day-labour, winter of 1920–21.

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PUBLIC WORKS REPORT.

REPORT OF THE PUBLIC WORKS ENGINEER.

PARLIAMENT BUILDINGS,
VICTORIA, B.C., August 29th, 1921.

J. E. Griffith, Esq.,
Deputy Minister of Public Works, Victoria, B.C.

SIR,—I have the honour to submit the following report for the year 1920–21:—

As I held office only for the last quarter of that year, I cannot speak so authoritatively for the Department as I might otherwise have done.

At the outset I wish to take this early opportunity of recording my appreciation of the splendid assistance given me by the Assistant Public Works Engineer and the hearty co-operation afforded by all the other members of the indoor staff on my assuming this most important and responsible position.

My confrères, the District Engineers, are worthy of recognition, as I realize that without their loyal support I could not confidently have undertaken my new duties with any hope of successful results. The unlimited assistance so afforded me and the general co-operation of the entire staff should in time redound to the honour and credit of the Department as a whole.

The organization which was initiated by the Honourable the Minister and built up under the able direction of my predecessor has attained a high state of efficiency, and each year shows clearly the results of the concentrated efforts of the District Engineers, supported by the splendid co-operation of the Assistant Engineers and general foremen. It is not my intention to suggest any radical changes in an organization which is not only functioning successfully, but producing excellent results. With the exception of a rearrangement in my old engineering district (No. 2), there were no changes in the engineering staff. For the betterment of the service one or two general foremen were replaced and one Engineer in District No. 4 was appointed in place of a general foreman who resigned.

ROADS AND TRAILS.

Chiefly due to the abnormal weather conditions and the prevailing high cost of labour, the amount of work accomplished was not so extensive as in previous years. The late spring and the prolonged wet spell in the fall of 1920 not only made the working season much shorter, but caused considerably greater maintenance and repair work.

On the Lower Mainland particularly, the fiscal year might well be described as a red-letter one, the late spring and the abnormal wet fall of 1920, together with the hurricane in January, 1921, creating conditions almost without parallel. The diversion of funds for such extraordinary work naturally left very limited funds for other very necessary work.

It is gratifying to note from the District Engineers' reports that more and more attention is being given to doing as much substantial improvement-work as funds will permit, and that particular attention has been given to the all-important question of drainage.

With high cost of labour correspondingly less work was done and in many instances with decreased efficiency. This lowering of the standard of work is noticeable in both contract and day-labour work. There have, however, been exceptions, as in the case of the Thrums–Brilliant Cut-off and the Kuskanook–Sirdar Road, both important links of the Trans-Provincial Highway, where work done by day-labour was both efficient and economical.

The policy of employing *bona-fide* settlers adjacent to the works under construction or repair has been faithfully adhered to, but the settlers have been shown that such works are primarily business propositions and not undertaken solely for the purpose of creating a pay-roll in their neighbourhood. Further, preference has been given to settlers on the distinct understanding that efficiency is of primary importance.

Considerable progress has been made in linking up the various gaps in the main trunk highways. The following portions have been undertaken in 1920: Osoyoos to 9-Mile (6½ miles) over Anarchist Mountain; a section about 6 miles west of Rossland; Thrums to Brilliant (4½ miles); Kuskanook to Sirdar (5½ miles); in all, 22 miles of new construction of standard

road-bed having been constructed. In addition to this construction-work, considerable reconstruction and maintenance have been undertaken by day-labour on various sections.

The year 1920 showed marked progress in highway-development, particularly in two ways—in the amount of work done under the "Canada Highways Act" and the mileage of hard-surfacing accomplished. Although this Act came into force on July 7th, 1919, the regulations governing it were not operative till December, 1919. Hence little advantage could be taken in 1919 of the privileges of this Act, whereby this Province is entitled to approximately $1,252,000 Federal aid during the five-year period ending April, 1924. In this connection I wish specially to mention the District Engineers and their assistants who undertook the detailed work of the various Federal projects. At headquarters we are very apt to look upon such matters as "all in the days' work," and issue instructions to have the work attended to. From personal experience I realized that the Federal aid highway programme involved much additional work of a strenuous nature throughout long hours.

Regarding hard-surfacing, the following table shows clearly the rate of progress since 1917:—

Year.	Miles of Bituminous.	Miles of Carpet Coat.	Miles of Concrete.	Total Miles.
1917–18	2.14	....	....	2.14
1918–19	3.39	....	....	3.39
1919–20	4.21	1.93	....	6.14
1920–21	3.78	3.15	9.52	16.45
Totals	13.52	5.08	9.52	28.12

The comparatively large mileage of concrete pavements laid in 1920–21 is remarkable. This is the first occasion in which one-course concrete pavements have been laid in the Province, and without going into the merits and demerits of this type of construction it would appear as if it will in time be more than justified so far as this Department is concerned.

In addition to the actual work undertaken on the roads, an extensive mileage of roads was surveyed and plans prepared for prospective projects. From the table of mileages and types of construction published elsewhere in the Report of the Honourable the Minister, it will be noted that the ordinary earth road still forms about 75 per cent. of our roads.

Although the mileage of surfaced roads does not appear to be greatly increased, it should be remembered that it is usually this type of road that has been paved. However, if the use of motor-trucks increases at the present rate, the Department will require to make greater provision for surfacing earth roads, particularly in the Lower Mainland, where the roads are subject to all-the-year traffic conditions.

EQUIPMENT.

More general use has been made of trucks and tractors for haulage purposes with expeditious and economical results. The Yuba caterpillar tractor obtained for the Fort George District has been particularly efficient and labour-saving. The more extensive use of mechanical loaders at gravel-pits has also helped to solve the loading problems. Road-graders and the indispensable road-drags are more in evidence than in former years, with excellent results. The Department has now roughly $400,000 invested in road machinery and equipment.

BRIDGES.

In spite of the unusual flooding conditions and extraordinary high waters, we were, with a system of bridge patrols, able to cope with the situation.

Although there was less bridge-construction done, the work was of a high order, much of it being carried out by day-labour. The accompanying photographs are very good examples of bridge-construction. In most instances the bridge piers were constructed of concrete, so that when circumstances permitted they could be utilized for construction of steel structures. As usual, maintenance formed a large proportion of the bridge expenditure. With special bridge-gangs available it is possible to undertake this work more systematically and at a minimum of expenditure. Mr. Kilpatrick, our energetic Superintendent of Bridges, has kept closely in touch with the District Engineers and their assistants in all matters pertaining to bridge construction and renewals.

Cutbank Bridge, Peace River District, Built by day-labour, 1920.

Cutbank Bridge, Peace River District, Built by day-labour, 1920.

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FERRIES.

With the exception of a new boat for the Mission Ferry over the Fraser River and one or two smaller ferries, little new construction was done. Our ferry systems are, however, being greatly improved every year, the equipment being strengthened or renewed and the ferry landings being made more accommodating. Consistent with the funds at our disposal, the ferries are meeting present requirements fairly well, and there appear to be few justifiable complaints as to the services rendered.

WHARVES.

Work on wharves was chiefly confined to the extension of and repairs to the Prince Rupert Wharf. Now that the wharfage-space is being leased, this wharf is on a better revenue-producing basis than formerly.

PROTECTION-WORK.

The principal work carried out was at Golden in extending the protection previously done on the banks of the Kicking Horse River. In conjunction with the City Council, similar work was done on the Elk River at Fernie. This concrete-slab method of protecting river-banks from erosion is proving very effective and, taking cost of maintenance into account, is more economical than other less permanent methods.

GENERAL.

Owing to the amendment of the "Land Registry Act," whereby all subdivision plans in extra-municipal territory had to be approved by the Department, considerable investigation-work was carried out; in all, 280 subdivisions having come under review. This commendable change will in time prove most beneficial, as in the past very doubtful subdivisions have been made that were not in the public interests. Now the Department will have more direct control over the lay-out of roads, thus saving needless expenditure, both to private and public bodies.

Herewith I have pleasure in forwarding the reports of the District Engineers, the Superintendent of Bridges, the Supervising Architect, and the Mechanical Superintendent, all of which contain detailed information as to the work done under their supervision.

Respectfully submitted.

P. PHILIP,
Public Works Engineer

REPORT OF ENGINEER, DISTRICT No. 1.

DISTRICT ENGINEER'S OFFICE,
PARLIAMENT BUILDINGS,
VICTORIA, B.C., August 3rd, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I beg to submit herewith my annual report for above district.

The season opened well with fine spring weather, but ended by being the wettest that has been experienced for many years. At the summit of the Malahat rains started about the middle of August and there was very little dry weather until March. A very severe storm on January 29th did considerable damage all over Vancouver Island, especially the west coast.

Extraordinary Traffic.—Heavy logging-trucks caused a large outlay in repairs and maintenance on main roads and side-roads. Legislation limiting such traffic during wet months will be welcomed. The Province of Ontario has limited loads during the wet months of March and April. The Toronto *Globe* had the following special dispatch:—

"*Trucks must carry Half Normal Load.*"

"LONDON, ONT., March 7th.—Something of a surprise was sprung to-day by County Engineer . . . when he issued a warning that no vehicle capable of carrying more than 1 ton shall, during the months of March and April, carry a load on the county highways greater than half of its normal capacity. The law is a new one, and is designed to prevent

the county roads from being cut up by heavy loads at a time when they are soft with the snows of winter and the spring rains. The County Police have been notified to strictly enforce the law in Middlesex. The penalty for infraction is a fine of $100."

In Norway, owing to the enormous expense entailed in rebuilding the Norwegian roads, which were built for lighter traffic, the authorities have found it necessary to regulate traffic to suit the roads instead of rebuilding roads to carry the traffic.

Plant.—The new trucks and other plant supplied this year have proved of great assistance.

Drainage.—This all-important subject has been given careful attention this year, with results that are very satisfactory.

Bridges.—All bridges in the district have been strengthened. Some of the longest truss bridges have been reduced to shorter spans by a pier in the centre or with trestle bents in front of both abutments. Now that logging operations in some rivers have ceased, a permanent pier of concrete can be built in the centre of some of the bridges when it becomes necessary to renew them with either steel or timber structures, reducing cost of spans considerably.

Labour.—Labour was fairly plentiful, except in some places at the northern end of the Island.

Construction.—A start was made on the Hardy Bay–Coal Harbour Road, but, chiefly owing to the wet weather, progress was not what had been anticipated and the work was closed down.

The work of preparation for a permanent pavement, such as drainage and widening, on the Island Highway from the Nanaimo City boundary to Chase River School was started. Gravel and rock were placed in the road-bed and rolled into the subgrade and the shoulders of the road reinforced. This work also had to be stopped on account of excessive wet weather.

Special work done in the spring, to relieve distress at various places in the district, principally in Newcastle and in the neighbourhood of Victoria, very greatly improved the South Wellington Road, the Holden–Corse Road, the Waterloo Road, and the Becks and East Wellington Roads. The Sooke Road, Malahat Drive, and at Glenora, in the Cowichan District, roads were also improved; the work consisted chiefly in widening narrow portions of the roadway, reducing sharp curves, clearing the right-of-way to the full width of 66 feet to let in the sun and air, and in improving drainage-ditches and building more culverts.

Three miles of new road were constructed on Saltspring Island, giving residents on Mount Tuam access to Fulford Harbour.

The most important work carried on during the year was the successful completion of the one-course concrete pavement on Island Highway from Craigflower Bridge to Parsons Bridge.

Returned soldiers have been employed whenever possible; many of them were residents in municipalities.

Respectfully submitted.

A. E. HODGINS,
District Engineer.

REPORT OF ENGINEER, DISTRICT No. 2.

NEW WESTMINSTER, B.C., August 23rd, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I beg to submit annual report for year 1920–21 for District No. 2, comprising Chilliwack, Delta, Dewdney, North Vancouver, New Westminster, South Vancouver, and Richmond Electoral Districts.

Chilliwack District.—During the past year very little work of a permanent nature was carried out by the Department in the matter of road-paving in this district, with the exception of 1½ miles on the Trans-Provincial Highway within the City of Chilliwack, which work was carried out by the Columbia Bitulithic Paving Company.

The type of hard surface used was a 2-inch asphaltic concrete surface on an old macadam base. It was found impossible to scarify the old macadam owing to the large rock used in its construction. The inequalities in the grade were therefore brought up with binder. The roadway as now completed is entirely satisfactory in every way.

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Trans-Provincial Highway, Project 9, Section A, south of New Westminster Bridge. Laying 18 feet concrete paving; contract.

Trans-Provincial Highway Project 9, Section A, South of New Westminster Bridge (through muskeg); 18 feet concrete. Method of protecting surface and curing paving by "ponding." August, 1920.

Trans-Provincial Highway, Project 9, Section A, south of New Westminster Bridge (through muskeg); 18 feet concrete. Method of protecting surface by canvas covers. August, 1920.

Ladner–New Westminster Road, Project 5, Section B. Laying concrete paving, 14 feet wide, by contract, 1920.

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Most of the work in the district consisted of ordinary maintenance and repairs; 10,051 cubic yards of gravel were hauled and spread on the Trans-Provincial Highway throughout its entire length through the Electoral District of Chilliwack.

The Ford truck which was purchased during the year has been of very great service in repair-work and in transporting men to and from work. It has been possible to rent trucks for the purpose of dragging the roads during the winter months and very beneficial conditions have resulted.

A number of important changes were made in removing dangerous curves in the main road, particularly at the Vedder Mountain section, where a number of rock bluffs were blown out, the road widened, and the curvature reduced. In several places where the roadway had been found all too narrow for the present-day traffic, widening was carried out, the idea being to undertake this class of work each year.

Several old bridges were replaced by new structures during the year, and it is anticipated that the renewal necessary from year to year will increase rather than diminish for some time to come. All bridges were maintained satisfactorily.

Owing to the flood conditions in the Fraser River and the resulting high water at Sumas Lake, the highway between Abbotsford and Vedder Mountain was closed to traffic for about six weeks. When the waters receded it was found necessary to carry out extensive repairs to the portion of the road flooded. This was done without delay or much inconvenience to the public.

New ferry approaches were constructed in connection with the Agassiz–Rosedale Ferry. These are of a splendid type of construction and are provided with adjustable landing-platforms which operate on rails, and can be raised and lowered by means of cable to suit the varying stages of the water in the Fraser.

Delta District.—During the past year the most important pieces of work undertaken by the Department in this district were in connection with hard-surfacing. The Trans-Provincial Highway (Yale Road) from Westminster Bridge to Johnston Road, a distance of about 5.57 miles, was surfaced 18 feet wide with concrete pavement.

A great deal of difficulty was experienced owing to the unusually heavy rainfall during the early part of the fall. About three-fifths of a mile of this work was done by Provincial day-labour. Considerable difficulty was encountered in the preparation of the subgrade. In one stretch of about 150 feet long peat was encountered; this was excavated to a depth of 3 feet and 22 feet wide; a heavy brush mattress was spread on the bottom of the excavation, on which was laid cedar puncheon 6 inches thick and 20 feet long; the whole excavation was then back-filled with selected material after ample drainage into the side-ditches was provided for. At other points, owing to the wet weather, the subgrade became muddy; this mud was carefully removed and the inequalities in the grade brought up by selected material. Particular attention was paid in protecting the green concrete slab from the effects of frost, heavy coating of straw providing adequate protection.

One might fill pages of the difficulties on the above work, arising from many causes. For instance, on the section of Peterson's contract, which was constructed by day-labour, the Department faced the problem of transporting 200 tons per day of material over a side-road (the only means of access to the contract) having a grade of 15 per cent. and a surface consisting of mud 2 feet deep. This is mentioned merely as one of the difficulties encountered in the work. Altogether, taking into consideration the adverse weather conditions, the roadway thus constructed is almost perfect.

On the Ladner–New Westminster Trunk Road (Semiahmoo Road) a 14-foot concrete pavement was constructed by contract for a distance of 1½ miles. The bulk of this slab was laid over a stretch of country of a boggy nature, very great care being given to the preparation of the subgrade, and where found soft, sand and gravel were applied in sufficient quantities to obtain the necessary stability. No reinforcement was used and up to date of writing this pavement stands without a flaw.

Owing to the narrow road existing before paving operations began, the problem of filling the existing ditches (approximately 2 feet wide and extending 1 foot below the surface of the ground and located 3 inches from the outside edge of the pavement) had to be met. The following method was adopted:—

A layer of brush mattress 6 inches thick when compressed was covered with a layer of large crushed rock 6 inches deep. This rock varied from 4 to 6 inches in size, and on the top of this

another layer of 1-inch rock was placed to the depth of 6 inches. These refilled ditches in turn were drained into the new ditches by means of lateral drains 12 inches deep and 6 inches wide, filled with crushed rock. These laterals were placed at intervals of 100 feet.

The balance of the work in the district consisted of the usual maintenance and repairs. About 13,000 cubic yards of gravel were hauled and spread with fairly good results on the Trans-Provincial Highway between Johnston Road and Aldergrove. More attention than formerly was given to the ditching throughout the district, with most beneficial results.

It has been found that, with the use of a mechanical loader and Government-owned trucks, the cost of hauling gravel has been reduced by 50 per cent. over the old method of loading by hand into wagons. The duplex truck has performed wonders during the winter in the matter of dragging and grading, and to this must be attributed the good road-surface maintained in the Municipality of Surrey during the winter months.

The Barnston Island ferry service was continued along same lines as previous year.

No bridge-work other than ordinary maintenance and reflooring was undertaken.

Dewdney District.—In this district the roads were maintained in excellent condition, with the exception of the Hatzic Prairie and Dewdney Road and road to Farms. The Dewdney Trunk Road continues to carry heavy truck traffic, necessitating continual maintenance throughout the year.

In the Nicomen and Hatzic Prairie Districts there has been considerable trouble in the matter of procuring men to do road-work, as they refused to walk any distance to work. This will now be overcome owing to the fact that the Department has provided four trucks for the purpose of conveying men and material to these outlying districts, which work cannot nowadays be done by team.

Practically all the work in the district consisted of maintaining existing highways, and the excellent conditions obtained are largely due to the care and attention given by General Foreman Wylie. A considerable quantity of Nicomen gravel was spread as surfacing material, with excellent results.

A great deal of loss was experienced by the farmers at Nicomen Island owing to flood conditions, and due to the same conditions the Department was faced with heavy expenditure in repairing roads.

North Vancouver District.—The conditions in North Vancouver Electoral District showed no great change during the past year. A certain amount of land was taken up mostly by returned soldiers. The influx of new settlers was particularly evident in the Pemberton Meadows and Gibson's Landing sections.

Numerous applications for construction of new roads were received, but on examination it was found that little expenditure was warranted by existing conditions. New roads actually constructed were: A short section of Halfmoon Bay to connect the existing road with a new Federal wharf constructed during the previous winter; a portion about half a mile in length near Green Lake, on the line of the Pacific Great Eastern Railway, to open up and give access to a considerable area of easily cleared meadow land, part of which was under cultivation; and a short section at Gibson's Landing.

The early and continuous rainfall of the winter resulted in softening of the earth roads in the Coast sections and considerable damage from auto traffic. Fortunately, a sufficient reserve fund was on hand to carry out fairly thorough spring repairs in the month of March, with the result that the roads in summer were in fairly good shape throughout.

A considerable increase of population was experienced in Pemberton Meadows, a most fertile section, the development of which is seriously hampered by the recurrent floods which almost annually inundate the cultivated areas, destroying crops and damaging the road. The annual allotment for this section is spent in repairing the damage done by the floods, with little improvement in road conditions.

New Westminster District.—The work in this district consisted chiefly of usual maintenance, together with flush-coating with tarvia the north approach to the New Westminster Bridge. The coating brought this stretch of roadway into splendid condition, and the same withstood the winter without any apparent injury. That portion of the River Road lying between Westminster boundary and the Municipality of Burnaby was treated with a flush-coat of tarvia with good results.

Ladner–New Westminster Road, Project 5, Section B. Concrete paving, 14 feet wide.

Trans-Provincial Highway, Project 9, Section E, Kingsway, South Vancouver. Laying 2-inch asphaltic concrete on concrete base near Central Park.

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Richmond District.—In the Municipality of Richmond during the fiscal year 1920–21 the paving of 1.9 miles on Nos. 5 and 9 Roads on Lulu Island was completed. This section was paved with one-course concrete 16 feet wide. The rain, which started early in September and continued with only slight interruptions until after the New Year, interfered greatly with the progress of the work, delaying completion until well on in December. The completed pavement, however, is an excellent piece of construction.

A contract was also let for the construction of suitable landings at Woodward's Landing and Ladner, to replace the old floats which had proved inadequate. A coal-bunker to render coaling less difficult was also constructed and is now operating satisfactorily.

Ordinary repairs were carried out on roads in the Government lands in Point Grey Municipality. Chiefly to relieve the unemployment situation, about $100,000 was spent on development-work on the site of the University of British Columbia at Point Grey. Nearly 100 acres were cleared, 1,500 square yards of macadam laid, and a 76-foot frame-trestle bridge of heavy design constructed. About 275 men were continually employed from December 1st to the end of March.

The Eburne bridges were redecked, an operation which is practically a yearly necessity. An idea of the volume of traffic which passes over these bridges at times can be obtained from the fact that during the races last summer at Minoru Park over 1,100 automobiles were counted going over the bridge in an hour and three-quarters. Even in ordinary times these bridges carry a fairly continuous heavy traffic. In addition, mechanism for turning by electricity the swing-span of Sea Island Bridge was installed and is operating satisfactorily.

South Vancouver District.—Since all of this district consists of organized municipalities, the Public Works Department undertakes no work directly, but contributes a portion of the cost of work which the Government may consider justifiable. In this way during the past year the Government bore equally with the Municipality of South Vancouver the cost of reconstructing the River Road Bridge, and with Burnaby Municipality the cost of repairing a number of bridges on the Hastings–Barnet Road.

In addition, half the cost of certain macadamizing and repairs to the latter road from Ellesmere to Sperling Avenue was also borne by the Government. The section of the River Road in South Vancouver extending from Fraser Avenue East to the boundary of Burnaby was resurfaced with a 12-foot coat of tarvia-treated macadam. The asphaltic concrete pavement laid on Fraser Avenue was patched where required.

The section of Kingsway lying within the district of South Vancouver Municipality, on which a strip in the centre was originally left unpaved for a probable double-line car-track, and which had always constituted an obstruction to traffic, was also taken in hand and paved by contract with asphaltic concrete surface on a 6-inch concrete base.

All of which is respectfully submitted.

E. H. VERNER,
Acting District Engineer.

REPORT OF ENGINEER, DISTRICT No. 3.

DISTRICT ENGINEER'S OFFICE,
KAMLOOPS, B.C., August 13th, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I beg to submit annual report for the above district for the year 1920–21.

In Kamloops District early spring repairs were carried out in the usual manner; nearly all of the 1,400 miles of road in the district were either graded or dragged. The repairs on such a large mileage take up such a large portion of the district vote that very little, as a rule, is left to carry on a very extensive gravelling programme, except on those roads for which special appropriations are available.

During the year many colonization roads were constructed; among these were Strawberry Heights Road, tributary to Kamloops, Squilax–Scotch Creek, settlement roads at Magna Bay, and extension of Blind Bay–Eagle Bay Road; these latter being in the Shuswap Lake section, a country which, when thoroughly opened up, will be a great asset to the district. The Chase

Creek Road, which has been under construction since 1916, was completed this year. In the North Thompson section roads were constructed at Vavenby and McMurphy.

Under the "Highway Loan Act" an extensive programme of metalling was carried on on the Kamloops–Vernon Road; the material was hauled by trucks loaded from bunkers, and another year's operations should put this important road in good shape.

During the latter part of the year important roads were started as relief-work—one to be the main Kamloops Road to the south-west, and the other to eliminate Kault Hill, on the Kamloops–Chase–Salmon Arm Road.

Bridge-maintenance work was carried out during the year, and while no very large structures were built, bridges were put in at Sorrento (known as the Kinghorn Bridge), at Scotch Creek, and Adams River.

In the Ferry Department the most important work was the installation of a new power-ferry between Sorrento and Scotch Creek.

In Yale District the repair charges were greatly increased by serious cloudbursts, which carried out stretches of roads before them.

The most important work carried out in the district was the construction of the road known as the 1-Mile Road, lying between Aspen Grove and the Similkameen boundary. This road shortens the distance between Merritt and Princeton by some 13 miles, besides reducing grades and curvature. Short pieces of road were also constructed at Winch Siding and Walhachin, a connection to the new spur of the Basque Chemical Company was completed.

Under the "Highway Loan Act" considerable gravelling was done on the Merritt-Kamloops Road, on which work a mechanical loader was used.

Respectfully submitted.

G. B. WHITEHEAD,
District Engineer.

REPORT OF ENGINEER, DISTRICT No. 4.

DISTRICT ENGINEER'S OFFICE,
PENTICTON, B.C., August 9th, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I beg to submit herewith my general report on the work done in the above district during the fiscal year 1920–21.

Roads (Maintenance, Repairs, and Improvements).—During the past fiscal year some 2,500 miles of roads were maintained at an average approximately of $6 per mile, including supervision, material, tools, etc. The motor traffic increases about one-third every year; this particularly applies to the heavier type of trucks. It is quite safe to say that one-fourth of our total appropriation is used to repair the damage occasioned by the hauling of prohibitive loads on our earth and gravel roads. It is to be hoped that this condition is to be remedied in the near future, as the situation is getting out of hand, and it will be impossible to keep the roads passable with the small appropriation allowed. About 1,700 cars of fruit alone are shipped every year from the Okanagan Valley, about 60 per cent. being hauled over our main roads. The only solution I can see for the future is to employ maintenance gangs constantly, winter and summer, keeping the main trunk roads in repair. The question of hard-surfacing any considerable number of miles is, of course, not to be considered, as the cost at this time would be prohibitive.

Trails.—About 800 miles of trails are also maintained in this district, the chief expense being clearing out the fallen timber in the early spring. These trails give access principally to mining camps and are for the use of Game Wardens and Fire Rangers.

Bridges.—A considerable amount of money was expended in reinforcing and repairing the bridges throughout this district, and several new bridges were constructed in North Okanagan District, including Enderby, Haynes–Wright, and Robinson Bridges. I find that the method of laying the floor, by using a 3-inch plank at a right angle to the traffic, with a 2-inch plank for a wearing surface, dressed on top, to be very satisfactory, this, in my opinion, should lengthen the life of our bridges considerably, as the vibration is reduced to a minimum by adopting this practice.

Trans-Provincial Highway, Project 23, Section D, Rossland–Christina Lake. New construction by contract.

Trans-Provincial Highway, Project 23, Section D, Rossland–Christina Lake. New construction by contract.

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Ferries.—There are four ferries operating in this district; i.e., Shuswap Lake Steamboat Service, which runs twice a week, accommodating the settlers as far north as Seymour Arm. From the very few complaints I have received, I would infer that this service has given good satisfaction during the season. The Westbank–Kelowna Ferry, which is a connecting-link of our main trunk road through the Okanagan Valley, has apparently given very great satisfaction, making four trips per day in the summer and two in the winter. On account of the increased traffic at this point, it might be advisable to consider the question of a continuous service in the near future. The Summerland–Naramata Ferry, which furnishes a service between these two points, is not, in my opinion, a complete success, in view of the very small traffic returns submitted by the ferryman. During the first nine months of the past season the total receipts amounted to $670, and I think it might be well to consider discontinuing this service at the end of the present fiscal year. This is a matter, however, which would require very careful consideration.

The Dog Lake Steamboat Service, which has been in use for a number of years, will no doubt be discontinued as soon as the Kettle Valley Railway Company has established its service at Dog Lake. This ferry has supplied a great need in the past.

Trans-Provincial Highway (Construction).—Six miles and a half of standard highway was constructed, commencing at Osoyoos and climbing up the Anarchist Mountain; this is part of our Trans-Provincial system and will form part of our through highway from coast to coast when the other connecting links are constructed. A section of this road was also built from Rossland west, a distance of about 6 miles. This work was completed on June 30th this year. I may say that the Dominion Inspecting Engineers expressed themselves as very well satisfied with the standard of construction. The minimum width of the roadway is 16 feet and the maximum grade is 8 per cent. Both the above-mentioned sections were built by contract (Major A. W. Davis), and I do not think that the most exacting person could offer any criticism regarding the quality of the construction.

Surveys.—About 40 miles of new line were surveyed, conforming with our standard type of main highways. All the level crossings, with the exception of one, in the Fraser Canyon route, were eliminated, overhead crossings being substituted therefor.

Yours obediently,

W. K. Gwyer,

District Engineer.

REPORT OF ENGINEER, DISTRICT No. 5.

District Engineer's Office,
Court-house, Nelson, B.C., July 13th, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

Sir,—I beg to submit general report dealing with the work carried out in the above district during the fiscal year 1920–21.

Roads and Trails.—The policy inaugurated in the preceding year of doing as much permanent work as possible was continued throughout the year, with very satisfactory results, and where our main roads are permanently located they are gradually being widened, ditched, crowned, and gravel-surfaced.

Nelson Electoral District.—Practically no new roads or streets were opened up, but the entire appropriation was spent in maintenance, gravelling, and extensive sidewalk repairs. The major portion of the Nelson District mileage is now within the city limits, the section known as Fairview having been added to the municipality just as we had put the main thoroughfares in good condition for traffic.

Trail Electoral District.—About 41 per cent. of our appropriation was spent on reconstruction and gravelling, most of the latter being done with 3-ton Federal trucks at a cost varying from 44 cents to $1.79 per cubic yard, depending on the length of haul. A great boon to the travelling public was provided by the completion of the Thrums–Brilliant Cut-off on the main road from

Nelson to Trail. This cut-off reduces the distance between the two cities by 7 miles, with a maximum 8 per cent. grade as against 22 per cent. on the old road.

Between Castlegar and Trail good work was accomplished with a new Adams leaning-wheel grader, the country being so favourable for the use of such a machine that it more than paid for itself in the saving effected in one month. From Trail to Columbia Gardens and Waneta, also through to Salmo and Ymir, the roads were kept in good condition for traffic, but considerable work will have to be done between Salmo and Columbia Gardens, once the interstate road leading from Metaline is connected up to our system of roads at Boundary Lake, as the auto traffic from Spokane will then be heavy.

On the Granite Road and Nelson–Balfour Road we permanently widened and surfaced 4.5 miles, while the balance of the roads (mostly laterals) in the district were all kept fit for traffic.

Rossland Electoral District.—Rock-surfacing was put on portions of the main travelled roads, while at the same time we endeavoured to keep in good repair all the lateral roads and cleaned out the main trails. The road between Rossland and Trail, a distance of 7 miles, will eventually be rock-surfaced throughout its entire length, and at the present time is one of the best roads in West Kootenay.

Kaslo Electoral District.—Most of our appropriation was spent in the Creston Valley, where considerable new work was done. The main trunk highway through the valley, forming a portion of the Trans-Provincial Highway, was extended from Sirdar to Kuskanook, a distance of 5 miles, thus connecting the Prairie Provinces with Kootenay Lake. Where this road passes through a rich farming district between Creston and Erickson, 4,200 lineal feet of water-bound macadam 16 feet wide was laid, and we hope to continue same during the coming year. Both of those works were efficiently undertaken by day-labour well within the estimated costs. Sufficient work was done on all roads in the Kaslo District to meet the needs of the settlers and about 4 miles of new roads were constructed, while trails that were required for mining or other purposes were cleaned out and repaired where necessary.

Revelstoke Electoral District.—The principal work was on the main highway between Boulder and Three Valley, a portion of the trunk road which will eventually link up Revelstoke with the Okanagan. This was carried out by contract, and 2 miles of the work will rank among the most difficult construction to be met with anywhere in the mountains. In order to provide additional work for the unemployed as could be economically undertaken, considerable amount of the rock-work was undertaken in the winter months.

The completion by contract of the Arrowhead North Road as far as Hall's Landing is proving of considerable benefit to the many agricultural communities hitherto dependent on shipping produce by boat to Arrowhead.

As far as possible the district appropriation was spent in reconstruction and gravelling, and all outlying sections of the district were attended to, both as regards roads and trails.

Slocan Electoral District.—The New Denver–Three Forks Road was opened up, with the exception of some rock points between Alamo and Three Forks. A start was made on the construction of the Edgewood–Vernon Road by building 2¼ miles from the Edgewood end, leaving 19¾ miles still to be constructed. Both of these works were satisfactorily carried out by day-labour.

Branch roads to the extent of about 3 miles for settlers and mining development had to be undertaken out of our district vote, and this, combined with the necessary work on mining roads and trails, left much too small a balance for maintenance on main roads.

Bridges.—The following structures were built:—

Revelstoke Electoral District: Goldfield's Bridge, one 100-foot standard Howe-truss span on pile abutments, built by day-labour.

Trail Electoral District: Salmonbelly Bridge, Ymir, one 90-foot standard Howe truss on concrete abutments, built by contract.

In addition, eighteen new stringer bridges were constructed and extensive repairs carried out on eight truss bridges throughout the engineering district.

Ferries.—No new ferries were installed during 1920–21, but plans are under way for the renewal of existing ferries at Nelson and Creston. The ferry at Castlegar continues to work efficiently and to give satisfactory service.

Surveys.—About 50 miles of road were located with outside assistance, and on none of these locations will there be a grade exceeding 8 per cent.

Trans-Provincial Highway, Project 23 J. Macadamizing by day-labour near Creston.

Trans-Provincial Highway, Project 23 J. Macadamizing by day-labour near Creston.

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Supervision.—The cost of supervision, including the salaries of general foremen, District Engineer, and office and travelling expenses, also Resident Engineers and assistants, amounted to 4.1 per cent., which is considered very favourable.

General.—The short experience we have had with trucks and heavy graders has amply demonstrated their usefulness in expediting the work in an economical manner, and thus making the Department more independent of expensive and, at times, unreliable team-work.

This report would be incomplete without placing on record the loyalty, enthusiasm, and co-operation of the general foremen, who have given of their best in the fulfilment of their duties, while I also wish to express my appreciation of the courtesy and encouragement received from the Department.

Respectfully submitted.

Wm. Ramsay,
District Engineer.

REPORT OF ENGINEER, DISTRICT No. 6.

District Engineer's Office,
Cranbrook, B.C., July 4th, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

Sir,—I beg to submit the following report for year 1920–21:—

Outstanding features of this fiscal year were increase of wages, shortening of working-hours, scarcity of labour, and change of the rule of the road. This latter took effect on July 15th, 1920, and owing to the well-planned advertisements and the posting of many notices along the highways no accidents occurred, and in a surprisingly short time drivers became accustomed to turning to the right.

Roads and Trails.—With a view to the permanent improvement of the main highways, surveys were undertaken to secure data required in connection with the Federal-aid programme, the most important of these surveys being from Dorr to Gateway; from Wasa to Sheep Creek; sections from Canal Flat northerly; sections from Cranbrook to Yahk (especially Moyie Lake Diversion); and the survey for a road to connect the town of Corbin with the Crowsnest.

Personal investigations were made in connection with the following: Waterton Lake–Flathead and Flathead Boundary bridge and road connections for the purpose of assisting oil enterprises and other interests in coal and timber situated in the south-east corner of the Province and isolated from the road system of British Columbia and from any railway connection. The Waterton Lake route would give access to the roads and railways of Alberta, the Boundary Bridge proposition to those of Montana, and Crowsnest connection with Alberta, thus co-operating with Alberta Highway Engineers in the matter of having the British Columbia portion of the Inter-Provincial Highway meet the Alberta portion of it at a suitable place. The junction of the Inter-Provincial Highway branch at Kingsgate with the road from Spokane was similarly gone into with Idaho Highway Engineers. The Gold Creek country was explored in reference to bringing it into touch with Waldo and Cranbrook; Coal Creek Diversion, for the purpose of arranging for an improved route away from the waste-dumps of the Crow's Nest Pass Coal Company; Elk Valley Road improvements, for the purpose of renewing bridges and repairing the road in the Upper Elk Valley for settlers and coal interests; Wattsburg roads, for the purpose of investigating improvements in conjunction with the owners of a large mill now being built; Yahk Diversion, to give better access to the town from the Inter-Provincial Highway; Harrogate Gravel-pit, to co-operate with the Canadian Pacific Railway in the matter of changing the main trunk road to Golden, so that access could be had by the railway company to the gravel-pit; railway crossings to be installed at Yahk, at Caithness, near Morrissey, and near Wasa; trails up St. Mary River and Perry Creek to look into the question of bridges and other improvements; also numerous propositions of minor scope, such as access to individual farms, etc.

With regard to works undertaken, the following were the most extensive: Wasa Fill on portion of improved location near Wasa; an improved diversion on the Bull River to Fort Steele section; Fort Steele streets; Inter-Provincial Highway, gravelling and reconstructions;

Sellentin Diversion, new road near Invermere; improvements to North Star Mine Road, Sullivan Mine Road, Paradise Mine Road, Horsethief Road to mines in Columbia District, St. Eugene Mine Road; sidewalks built in Kimberley; Bull River South Road for settlers; Peghin Road for settlers in St. Mary Prairie country; diversion near Marysville of the main road from Cranbrook to Kimberley; Dairy Road to give access to dairy-farm near Fernie; Cokato Road, Toby Road, Dragon Slide Diversion in Columbia District; flume and sidewalk repairs at Moyie; a diversion on the road to Skookumchuck; Findlay Creek Road for ranchers; Ottason Road near Golden for farmers; street improvements at Golden; Degeordie Road near Donald for settlers; and improvements to Elk Valley Road.

When necessary the snow was ploughed off the roads in winter, the blade being fixed to the front of the Federal truck. Work was done on St. Mary Trail, opening it up for about 30 miles, and building two bridges across the East and North Forks of the river. Perry Creek Trail, together with numerous trails of smaller extent, were opened up.

Bridges.—The most important bridge-work carried out is as follows: The removal of one 150-foot Howe-truss span intact from its old position over the Kicking Horse River at Golden to a site about 250 feet lower down stream, where it was placed on concrete piers; the other 150-foot Howe-truss span being dismantled and re-erected over the Columbia River at Brisco; the Wasa Trestle in the improved road diversion near Wasa; new 150-foot Howe-truss span over the Elk River at West Fernie; new bridge over the Elk in the Upper Elk Valley; two bridges over fork of St. Mary River. Following the Department's policy of replacing old wooden structures by culverts and fills where feasible, considerable work of this nature was undertaken. Most of the bridges were erected by contract.

River-bank Protection.—At Natal some work was done of a minor nature to divert the course of Michel Creek into safer channels; at West Fernie pile-wall protection was built in conjunction with Elk Valley Lumber Company; in conjunction with the City of Fernie, the concrete-slab protection was continued; at North Fernie a pile wall was commenced jointly with the Crow's Nest Pass Lumber Company; at Golden extensive protection of the concrete-slab method was carried on; and at the mouth of St. Mary River a pile wall was built to protect the main road.

All protection-work successfully withstood the flood period. There was no loss of bridges and traffic was not interfered with.

Machinery.—A mechanical loader was introduced into this district for the first time, and in conjunction with truck-haulage is giving great satisfaction, with resultant economy in gravelling roads.

Subdivision Plans for Approval.—The requirements of the new "Land Registry Act," whereby subdivision plans are subject to the approval of the Public Works Department, will ensure economy to the Government when considered necessary to construct roads on subdivisions. In all, twenty cases were investigated and approved after some modifications.

Numerous applications by individuals or companies to construct culverts, pipe-lines, etc., across Government roads were also investigated and approved.

I wish to express appreciation of the willing assistance received from all in the Public Works Department at Victoria and in this engineering district; also for assistance and co-operation from the Forestry Department, the Water Rights Branch, the Government Agents, the police, the local Telephone Company, and the Canadian Pacific Railway officials.

Yours obediently,

J. C. BRADY,

District Engineer.

Trans-Provincial Highway, Project 23 J. Rock-crushing equipment near Creston.

Caterpillar tractor hauling grader, Fort George.

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REPORT OF ENGINEER, DISTRICT No. 7.

DISTRICT ENGINEER'S OFFICE,
PRINCE RUPERT, B.C., August 16th, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I have the honour to submit herewith my report for fiscal year 1920–21, as follows:—

Organization.—During the previous year our organization seemed to work fairly smoothly, and for that reason it was not considered necessary to make any drastic changes. A few changes were made in local foremen only. It was found, however, before the season ended, that there was more work being done than could be properly supervised with the limited staff. A total of $443,068.72 worth of work was done at a cost for supervision of 4.14 per cent., which is below the average for this class of work.

Weather.—The winter of 1919–20 was the longest and most severe on record. In most parts of the district the snowfall was about double the average. Winter was followed by a very wet, late spring. Rain was recorded on twenty-six days in June at Francois Lake. The first two weeks of July were exceptionally hot. The balance of the season was generally favourable and the following winter was particularly favourable for the class of work we were doing.

Labour.—Labour conditions were the worst yet experienced. Wages were increased an average of 50 cents per day, but the increased wage did not seem to have the effect of bringing about better conditions. Towards the fall there was a change for the better. The few gangs which were kept going all winter on bridge-work rendered very excellent service, easily 50 per cent. better than we had been getting previously.

Materials.—The year was marked by the extreme cost of materials of all kinds. With the exception of powder, the cost of all materials was higher than ever before, but at the close of 1920 lumber took a big drop, reducing considerably the cost of bridges which were constructed during the winter.

Economic Conditions.—Generally speaking, farm crops were below the average, but a greater acreage was harvested, due to increased settlement. Mineral production was increased considerably. The Silver Standard, Surf Inlet, Premier, Granby, and Dolly Varden all showed an increased output up to the end of 1920. The drop in the price of metals seriously affected production from that time on. The placers of Atlin also made a creditable showing. Lumbering was exceptionally good during the spring and summer, but the market fell to pieces in the fall. The fisheries report an exceptionally good year. Altogether it was a good year economically.

Settlement.—A large number of very good settlers took up land in the Omineca and along the Skeena. In addition, a lot of prospecting and developing was done in the mineral belts. The demand for more and better roads and trails was thereby increased.

Roads and Trails.—On account of the weather conditions noted above the cost of maintenance and repairs ran very high and delayed the commencement of new construction. The need for more attention to drainage and to getting the roads into a shape so that they can be machine-repaired was strikingly demonstrated. The more general use of motor-cars and trucks also demonstrated the need for starting surfacing with gravel as soon as possible.

Considerable new construction was done, but only the more important will be mentioned. The Salmon River Road was extended for 1½ miles; this was very heavy work, mostly in rock. A start was made on the construction of the Port Clements–Tlell Road to connect up the east and west coasts of Graham Island, and also an extension of 1 mile on the Delkatla–Chown Point Road, Graham Island. A heavy rock-cut was taken out at Colleymount, on the Colley Mountain Road. On the Main Fraser Lake Road, which forms a part of the Fort George–Hazelton Road, Project No. 18, 21 miles were slashed, 15 miles cleared, and 10 miles graded. On the North Francois Lake Road, Project No. 19, the remaining 4 miles were completed. A number of settlement roads were constructed or partially constructed, totalling approximately 30 miles of new work.

In addition to the above, extensive reconstruction of old roads was carried out and also a number of new trails constructed, mainly in the mineral areas. Construction constituted 56 per cent. of the whole; reconstruction, 19 per cent.; and maintenance, 25 per cent.

An attempt was made to do a little better class of work than what was done formerly. More attention was paid to drainage, and wherever funds would permit roads were graded to a greater width. The advent of motor traffic necessitates wider roadways.

River-protection.—Although there had been a very heavy snowfall during the previous winter and heavy rains in the spring, the run-off was slow; hence not much damage was done through floods. The principal river-protection work carried out was at Alice Arm, where a quarried-rock wing-dam 600 feet long was put in, which served to prevent extensive damage. On the Bella Coola River 800 feet of mattress-work was done immediately below the Salompt Bridge, and in addition three big log-jams removed.

Bridges.—A new 100-foot Howe-truss span was put in at Williams Creek. Fiddler Creek, 74-foot span, and Kitsequekla and Brown Creek, 60-foot spans, were renewed. In addition, a great number of bridges were repaired. Altogether there was more care taken in the construction of bridges. Better material and better workmanship were evident.

Ferries.—The maintenance of ferries required considerable attention. Some of the old ferries have practically outlived their usefulness and constant attention is needed. An attempt was made to improve the approaches and landings, as it was found that traffic had the most difficulty in getting over the approaches. A new 15-ton ferry was constructed for Usk on improved designs and worked very satisfactorily. Also two new wharves were constructed for the Francois Lake Ferry.

Wharves.—The Bella Coola Wharf was repaired and extended for 10 feet. About 200 feet of the Prince Rupert Wharf was reconstructed so as to accommodate fish-packing companies; the wharf was also extended for 126 feet and a building erected on it for the accommodation of fish-packers. Other wharves and floats were properly maintained.

Conclusion.—The development of the district is proceeding rapidly and the demands for more and better public facilities are becoming more urgent every day. It is hoped that the cost of construction and maintenance will be reduced in the near future to the point where the annual appropriation will take care of the needs of the district.

It is a pleasure to be able to record again the unfailing support given by headquarters staff, the co-operation of other departments, and the commendable service rendered by my office staff and field organization generally.

All of which is respectfully submitted.

A. L. CARRUTHERS,
District Engineer.

REPORT OF ENGINEER, DISTRICT No. 8.

DISTRICT ENGINEER'S OFFICE,
SOUTH FORT GEORGE, B.C., June 23rd, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I have the honour to submit my annual report for the fiscal year ending March 31st, 1921.

The closing of this year marked undoubted progress in the work generally, despite the prevailing difficulties attributed to high wages and cost of materials, labour unrest, and inclement weather conditions. The season's programme was carefully laid out, but for reasons stated above it was not found possible to carry it to completion.

For instance, regarding cost of materials, at the commencement of the year horse-food was worth $75 per ton in Prince George and by the time it reached the job the cost became almost prohibitive. Other prices were more or less in proportion, but fortunately prices dropped considerably toward the height of the season.

The use of the large Yuba caterpillar tractor provided for this district offset this cost to some extent, the machine being used almost continually for grading and hauling purposes until the work closed down. Without this machine it would have been impossible to have carried out the heavy regrading accomplished.

The installing of additional equipment such as this is becoming more essential every year if the fullest advantage is to be gained for every dollar expended.

Steam-shovel in clay cut, Colleymount Road, Omineca. Day-labour.

Mechanical loader at work in gravel-pit. Day-labour.

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Roads.—The policy of especially caring for main trunk roads was energetically carried out as far as funds would permit, much good work in the way of permanent improvements being commenced.

Federal Aid, Project No. 16, Cariboo Road, Sections A and C, Hixon Creek to Summit Lake, received prime attention, a contract having been let for slashing the right-of-way over Section A a distance of some 42 miles between Hixon Creek and Prince George. With this work completed there is every opportunity of carrying out the grading-work along the entire section. In the vicinity of Prince George, on this road, a large amount of heavy grading and filling became necessary on account of high-water conditions, the major portion of the work being handled to advantage by the Northern Construction Company, contractors for the Pacific Great Eastern Railway. On Section C, Fort George to Summit Lake, some important improvements were carried out by day-labour, the entire road becoming available for auto traffic for the first time.

The Fort George–Hazelton Trunk Road was much improved in the vicinity of Prince George, Vanderhoof, and Fort Fraser. As this road is included in the Federal-aid programme, a considerable amount of revised location will be necessary, the work at present being confined to sections which are considered to be on permanent locations.

Land-settlement Work.—Three land settlement areas have been opened up in this district—two in the Nechako Valley, at Vanderhoof and Marten Lake, and one at Prince George.

The Prince George Area is served by the main trunk road to Quesnel, which gives excellent general egress, and several miles of side-roads were opened up to connect with this main artery, whereby nearly every quarter-section taken is provided with an outlet. The work herein carried out consisted principally of slashing and grubbing where necessary, improvements being made as funds permitted.

Through the Vanderhoof Area a good general road was opened, to which side-roads were connected for those who had taken up holdings. As evidenced by all the settlers, this policy is working very satisfactorily.

Side-roads.—A large mileage of side-roads to outlying sections has been commenced from time to time throughout this district, and where conditions warranted and funds were available small improvements were made.

On account of the extremely wet weather experienced during the months of August, September, and October, a great deal of damage was done, proving somewhat detrimental to those who had any hauling to do.

Substantial improvements were carried out in the vicinity of McBride, the main streets being well ditched and graded, and the road east on the north side of the Fraser River cut through to the Beaver River.

In the Vanderhoof and Fort Fraser Districts the work chiefly consisted of repairs, although a few short extensions to existing roads were made.

A new short cut from the town of Vanderhoof to the main Fort George–Hazelton Road was opened up for the benefit of settlers in the Mapes and Hulatt Districts, reducing the distance by 2 miles. This road was only partly completed.

Peace River District.—The main roads in the Pouce Coupe District were substantially improved, especially where the grades over the deep ravines had cut the prairie in so many places. Several miles of road allowances were opened up for the benefit of new settlers, and in the outlying parts of this section and at Hudson Hope improvements on the existing roads, in the way of reducing grades, etc., were undertaken.

Bridge-work.—During the season a large number of small structures were repaired or renewed throughout the district. Little trouble was experienced from spring wash-outs, with the exception of the Cutbank River Bridge, in the Peace River District, unprecedented weather conditions being entirely responsible for this damage. The principal structures of importance constructed during the season were the Fraser River Bridge at Dunster and the Cutbank River Bridge in the Peace River District. The work was done during the winter months, in both cases being carried out by day-labour. The former consists of two 130-foot Howe-truss spans with trestle approaches. Excellent work is to be found in every detail of this construction and with proper maintenance it should last for many years.

In replacing the Cutbank Bridge a new design was decided on—viz., one 100-foot Howe-truss and two 40-foot King trusses with pile piers. This work, which was completed in March, has not

been inspected to date, but from photographs received it has every appearance of being a well-finished job.

A King-truss bridge was erected over Beaver River on the new McBride–Dunster Road.

Ferries.—The ferry on the Fraser River at Dunster has been eliminated on account of the erection of the bridge, and marks the third ferry to be so replaced during the past four years.

All the remaining river crossings have been well maintained, and as the traffic at some points appears very small, it will no doubt be some time before any further replacements with bridges become warranted.

Generally.—As previously mentioned, the working season was much hampered by wet weather, and the labour question being so acute, several small matters had to remain in abeyance, but with the difficulties involved a very fair showing was made.

The continued unfailing interest at all times shown in the work by the general foremen and staff, together with the excellent support and encouragement received from headquarters, has gone a long way towards creating the efficiency which has been obtained.

All of which is respectfully submitted.

ARTHUR DIXON,
District Engineer.

REPORT OF ENGINEER, DISTRICT No. 9.

DISTRICT ENGINEER'S OFFICE,
QUESNEL, B.C., June 9th, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I beg to submit my report for year 1920–21 for this district, comprising Cariboo and Lillooet.

Labour Conditions.—In the Lillooet section conditions were normal, but difficulty was experienced in obtaining labour in Cariboo even at greatly increased rate of pay. Although farmers in the district were offering $5 a day and board for farm-hands, the demand was greater than the supply. This state of affairs increased the cost of all work and prevented much-needed improvements.

Weather Conditions.—Much damage was done in Lillooet District by cloudbursts in July. The excessive rains in Cariboo practically suspended heavy traffic on earth roads and caused many mud-slides and other damage. The winter was, however, mild and the snowfall average.

Roads and Trails, Lillooet District.—The most important works undertaken were gravelling Cariboo Main Road, Mile 26 to Mile 34, and widening and reconstructing Bridge River Road. A supply of "Armco" culverts was obtained and used on the main road, displacing old pole culverts. Woods Box–High Bar Road was rebuilt after being entirely destroyed by cloud-burst. Connections to Pacific Great Eastern Railway were made at Exeter and Lac la Hache. Grade improvement was effected at 9-Mile Gulch–Lillooet–Clinton Road.

Cariboo District.—A great deal of work was done in an effort to keep the main roads open to traffic during the extremely wet year.

The Cariboo Main Road, Mile 211 to Mile 218, was gravelled in sections, but a considerable amount remains to be done at this point before it is fit for the heavy auto traffic. Work was done on the Quesnel–Fort George section, building that portion near Little Cottonwood and making the road passable to Strathnaver. One mile of gravelling was completed on Chilcotin Main Road at Borlands Mountain. The grade at west approach to Soda Creek Ferry was improved. The usual maintenance and repairs to roads and trails were carried out throughout the district.

The advent of the Pacific Great Eastern Railway is causing a change in direction of travel, and on this account demands for new roads are very numerous. It is interesting to note that the past winter was the first in the history of the Old Cariboo Road during which no mail-stage operated, and in many parts the snow remained unbroken during the entire winter.

Ferries.—The ten ferries throughout the district were maintained in a satisfactory condition. A new ferry was built at Woodjam and the towers and cable were erected at Macalister.

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Caterpillar tractor grading in Fort George District.

Tractor and grader working on Cariboo Road, clearing off material deposited by cloud-burst.

Project 16, Section A, Cariboo Road, Fort George–Hixon Creek. Looking south, Mile 14; new construction by contract.

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Bridges.—During high water in the Quesnel River the bridges at South Fork and Quesnel were damaged, repairs being effected and the structures made safe. A rock-covered brush-mattress protection was constructed at Quesnel Bridge, where serious bank-erosion is taking place each year during high-water. This protection will require to be extended each year until proper protection is given. Bridges throughout the district were repaired and maintained.

General.—A few minor contracts were awarded for both roads and bridges; these were found to be satisfactory and it is the intention to continue minor contract work whenever possible. A "Cletrac" tractor was used for the first time on grader-work in Lillooet District and proved economical and effective. Towards the end of the fiscal year changes were made in the organization which will lessen the cost of supervision and increase efficiency.

Respectfully submitted.

G. C. MACKAY,
District Engineer.

REPORT OF SUPERVISING ARCHITECT.

DEPARTMENT OF PUBLIC WORKS,
VICTORIA, B.C., March 31st, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I have the honour to submit the following report for your consideration of the work carried out by this Branch during the fiscal year ending March 31st, 1921:—

The year has been one of activity and it has been necessary to obtain the services of two extra assistants in a temporary capacity. They have considerably strengthened the staff and enabled the work to be carried out more expeditiously, and at the same time allowed other members to make the necessary tours of inspection of the work so essential during building operations.

Parliament Buildings.—These buildings have undergone considerable changes during the year, and a start has been made in systematically going over the same and kalsomining and painting the entire building. Also, on the report of the Inspector of Electrical Energy, a start has been made on rewiring the older portion of these buildings to take care of the additional load placed on them and to comply with the Fire Underwriters' requirements, and thus reduce our insurance rate.

Provision for the enlargement of the Museum was commenced by providing a basement to give the Curator fire-proof storage and exhibition room for his relics now stored in the temporary building adjoining the Museum.

The roof and parapets have been thoroughly overhauled and left in good condition. I might mention that the whole of these works have been carried out by the tradesmen of this Department.

Also considerable work on furniture and other repairs were made for other departments whose expenditure was not controlled by our vote.

The Statue of Queen Victoria was completed during this year and the grounds improved under Mr. Partington's supervision.

Government House.—Considerable alterations and repairs have been carried out to this building which have become necessary through general wear and tear and to accommodate the new Lieutenant-Governor. Improvements were made to the grounds, greenhouses, etc.

Other Government Buildings, Victoria.—Repairs to roof and interior decorations have been effected at the Court-house, Victoria.

Minor repairs and decorating were done at the Normal School and a scheme prepared for laying out the grounds, a portion of which was completed, including blasting away the large mound of rock in front of the building without even cracking a window, and a new tennis-court and hockey-field were made. I wish to bring to your attention the assistance given me by Mr. Partington in supervising this work, which was a complete success, and has made a huge difference to the appearance of these buildings.

Hospitals.—Much new work was carried out at the various Mental Hospitals in the Province. At New Westminster, besides the general repairs and upkeep, a new Nurses' Home has been erected and equipped and new concrete sidewalks put around the main approach to the building.

At Essondale, beyond the general maintenance and repairs, an addition has been placed to the temporary annex at the Colony Farm for seventy-five patients. A new shops building has also been erected and six houses erected as part of a colony scheme for attendants at this institution.

The Saanich Mental Hospital had several improvements and repairs made to accommodate the increased number of patients housed at this institution. These buildings were erected by the institution's own men under our direction, this Branch having provided plans and bills of quantities for same.

Sketch-plans were also prepared for a Memorial Hospital at Armstrong and sundry assistance given to various Hospital Boards.

Boys' Industrial School.—The actual work on construction of these buildings was commenced this year and are now well under way, but the very inclement weather has considerably delayed the work. Your attention is particularly drawn to the good work done by the staff and patients of the Mental Hospital, Essondale, who carried out all the excavations, road-cutting, foundations of the buildings to ground-level, heating and electrical installations, at a considerable saving in money to the Government in labour.

Court-house, Prince Rupert.—The plans for this building were completed during this year and the contract awarded, but the actual start on construction will not occur until the coming fiscal year. I would like to bring to your notice that this is the largest building contemplated during this period in the Province.

Oakalla Prison Farm.—Beyond the general repairs and maintenance, a new house for the Warden is being erected by inmates and tradesmen of this institution, this Department having supplied plans and bills of quantities for all work, and a very creditable building is being erected, particularly with the many disadvantages under which they have to labour.

Vaults.—Plans for sundry vaults were made for various minor agencies, but owing to the lateness of the season only one has been completed.

New Court-houses.—Plans were prepared for new Court-houses at Pouce Coupe and Williams Lake, but the work on construction was delayed for the coming year.

Gaols.—Plans were prepared for new gaols at Clinton and Kelowna, but the work on construction deferred to a later period, whilst considerable repairs and alterations were made to existing buildings.

Schools.—The actual work of construction was commenced on the new twelve-room consolidated school at Armstrong, which is progressing very favourably and an excellent piece of work being performed.

The following rural schools were also erected: Eight rooms, 1; four rooms, 2; three rooms, 1; four rooms, 3; one room, 2; four-room addition, 1; three-room addition, 1; two-room addition, 1.

Plans were also prepared for one four-room addition and two one-room additions that were not carried out this fiscal year, whilst many minor repairs were done to existing schools, and the alterations made to the old Labour Temple, Vancouver, to transform it to the new Technical School. Sundry repairs were made to the Normal School in Vancouver.

Government Agencies.—The maintenance and repairs to the various agencies were carried out by this Branch, but beyond Vancouver and Rossland no very great expenditures were made.

Other Buildings.—An addition was made to the Mine-Rescue Station, Fernie; Labour Bureau, Vancouver; whilst a new barn was erected at the Girls' Industrial School, Vancouver, and the grounds all cleared, grubbed, and ploughed, and general repairs to the building made. General maintenance and repairs were made to the Old Boys' Industrial School at Point Grey and Old Men's Home, Kamloops.

Additional pheasant-pens were erected at Colquitz and Cedar Hill and alterations to the Liquor Vendor's Store in Vancouver.

A general period of high prices prevailed during this fiscal year, but there is a distinct sign that the decline in prices is in view, which will reduce the cost of our buildings to a considerable extent.

I wish to thank you, sir, and the Deputy Minister for your interest and advice in the work of this Branch, also thank all members of the staff and tradesmen for their loyalty and co-operation in carrying out the works assigned to them.

Photos of some of the more prominent buildings carried out during this period are attached hereto.

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Boys' Industrial School Cottage, Essondale, near New Westminster.

Boys' Industrial School, Essondale, near New Westminster. Excavation-work.

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Below is a statement of the cost of carrying out the work of this Branch with the percentage of cost on the work executed, but is exclusive of office-rent, light, and water. This, however, I consider more than offset by matters that have been done by the Branch, of which no particular note of their value has been kept, and the personal knowledge I have of the various Government buildings and institutions which makes it possible for me to provide the Department with information which otherwise they would have to pay for.

Salaries of staff, including Stenographer	$10,045 00
Paper, stationery, prints, etc.	750 00
Total	$10,795 00

Total value of work done during this year on which architects' fees could be charged is $703,511, thus showing the cost of operation of the Branch is only slightly over 1.5 per cent., which is a very low percentage when taking into consideration the class of buildings erected during this year.

All of which is respectfully submitted.

HY. WHITTAKER,
Supervising Architect.

REPORT OF SUPERINTENDENT OF BRIDGES.

DEPARTMENT OF PUBLIC WORKS,
VICTORIA, B.C., September 6th, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I have the honour to submit the following report for the fiscal year 1920–21 on bridges, ferries, and river-bank protection:—

During this period 314 bridges were inspected. In each case individual reports were submitted to the Department, in which recommendations for repairs, renewals, etc., were set forth as occasion required.

Only the more important structures or those known to be in need of renewal or repair were examined. The maintenance of the bridge-work generally throughout the Province has been promptly executed by the several officers responsible, and with very few exceptions has been carried out in a workmanlike manner. Where new structures have had to be undertaken, careful investigation followed by accurate surveys has gone far towards an improvement in the carrying-out of our work. Tenders have usually been called for, and where the bid has been reasonable the work has been let by contract, which, with competent inspection, has given good results.

The cost of all materials used in repairing existing bridges and the building of new structures has never been higher than during this fiscal year. New construction has therefore when possible been postponed, and as a consequence the Department has exercised a good deal of ingenuity in devising means for carrying some of the latter bridges until the price of materials has dropped to a reasonable level. Such work, however, is merely temporary, but the cost entailed has in every instance been justified.

We have found, generally speaking, that the life of timber bridges is in the neighbourhood of from ten to fourteen years, though there are instances where the life has been considerably less and considerably more, the maximum range being from eight to twenty-two years. As a consequence of our policy of bridge reinforcement, it must be realized that more liberal appropriations will have to be provided in future years to allow of the replacement of structures temporarily reinforced during this and the preceding fiscal year. This will be a charge in addition to the normal replacements which will have to be undertaken.

As to new construction, it will be clearly understood that the cost of this will be in some proportion to the total mileage of new roads built as required by rural development.

Generally speaking, the weakest feature of our highway system is our bridges. As a consequence of the very great increase which has recently taken place in the volume, weight and speed of our highway traffic, we are faced with the dilemma of either having to limit the weight and speed of vehicles upon the highways or be prepared to face a large bill of cost to allow of

the bridges being reinforced or rebuilt to meet the new conditions. A similar situation is being faced in the rest of North America and Europe. You will note by official publications the steps which are being taken to overcome this difficulty in these countries.

The Department has recently made several innovations in connection with bridge designs. These will go far toward increasing the strength of bridges without any material increase in the cost of construction, and, further, will greatly prolong the life of all our timber structures. This has been done largely by the use of steel and iron clamps, keys, and packing in built-up members in lieu of the wooden blocks, etc., used heretofore.

We have also adopted a system of covering the more important members of framed structures with galvanized sheet iron as a protection both from the weather and fire.

The Department has also carried on a systematic inquiry as to the cause of decay in timber, and by a rearrangement of the various members in bridges and a redrafting of the specifications we have evolved designs to meet the new knowledge which we feel confident will very materially increase the normal life of our timber structures, particularly in wet localities.

We have made experiments with various types of flooring upon bridges subject to excessive traffic, and as far as we have been able to go at present it would seem that a considerable economy can be effected in many places by the use of an asphaltic mat laid directly upon a timber deck. It will take some time, however, to determine the life of this mat, so that a direct comparison can be made with the ultimate difference of cost between an asphaltic mat and a timber floor.

In renewing bridges upon highways subject to heavy travel where the location has been decided upon beyond all future dispute, we have adopted a policy of constructing concrete foundations to provide for the steel structures which will ultimately have to replace the timber bridges now being built.

With reference to suggestion of replacing our wooden bridges by steel structures, I may say that British Columbia is in the most fortunate position of possessing large supplies of the strongest and most durable timber of highest quality, and these may be secured now at a price (taking the ultimate life of the materials into account) which compares favourably with steel. We have made careful inquiry into the whole situation, and are satisfied that until the price of timber is considerably advanced we would not be justified normally in adopting steel in lieu of timber, though undoubtedly there are some instances where this will have to be done soon. As a further economy we have gone carefully into the question of replacing, where possible, timber structures by earth fills and concrete culverts. In many cases we have been able to make a very considerable ultimate saving by this.

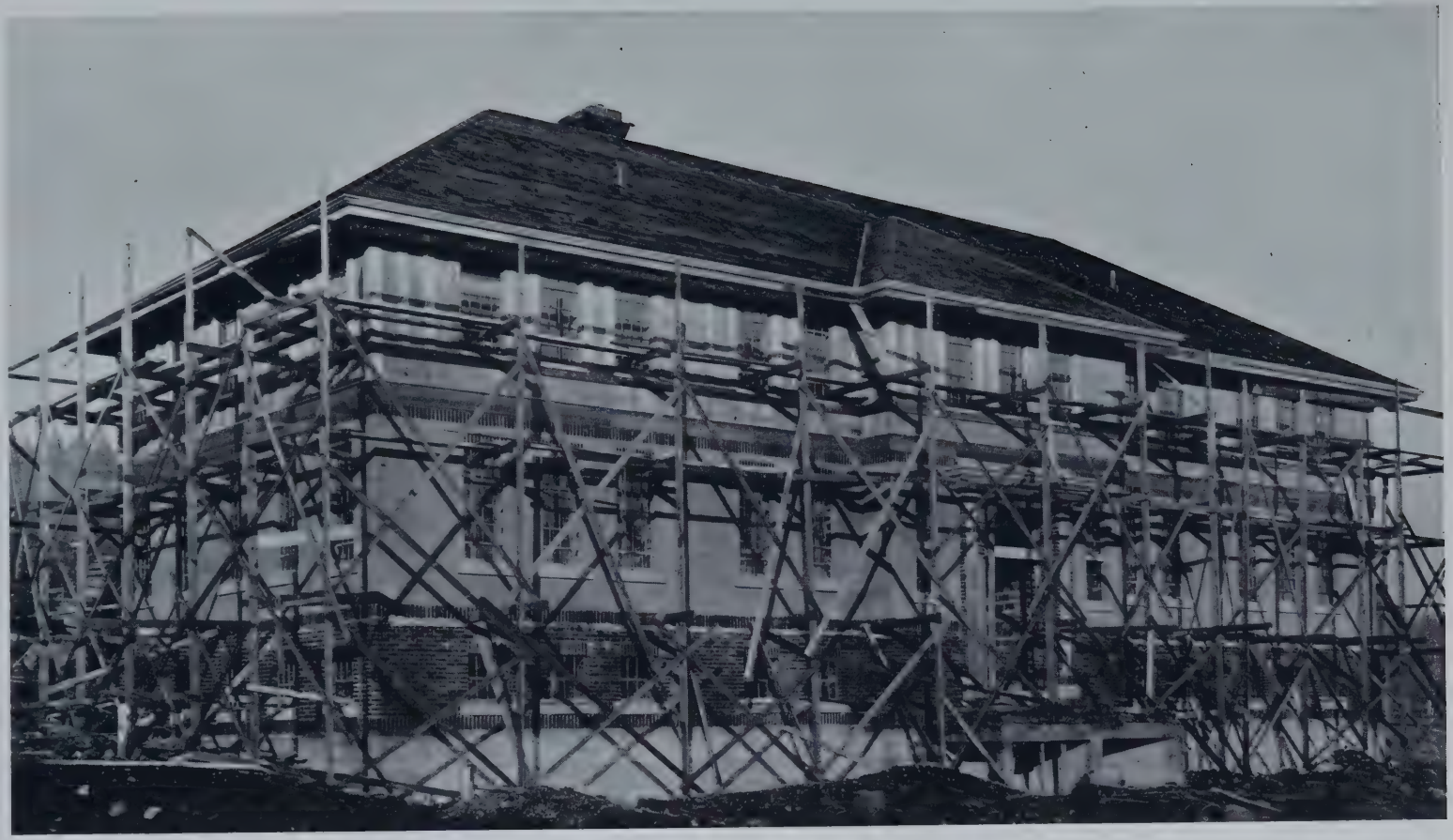
During the fiscal year I have also inspected the more important ferries throughout the Province and the approaches leading thereto, and I have found that in general they have been well kept up and have provided good and adequate service.

As far as public works are concerned, little serious damage has been caused during this year by flood and erosion. We have, however, where public works have been effected, had to undertake certain river-bank protection, and an innovation has been made in this connection by the use of concrete slabs connected by steel-wire rope. This design is the outcome of the accumulated experience of many eminent engineers who have devoted their time solely to this class of work, and as far as our experience has gone this type of construction justifies the cost entailed.

In conclusion, I have to report that the work performed by the various officers of the Department responsible for the construction and maintenance of bridges, ferries, and river-bank protection as performed during the year 1920–21 has been of a high order.

Respectfully submitted.

T. KILPATRICK,
Superintendent of Bridges.



Boys' Industrial School Cottage, Essondale, near New Westminster.

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REPORT OF MECHANICAL ENGINEER.

DEPARTMENT OF PUBLIC WORKS,
VICTORIA, B.C., June 30th, 1921.

P. Philip, Esq.,
Public Works Engineer, Victoria, B.C.

SIR,—I beg to report to you regarding the plant and machinery, automobiles, boats, etc., in possession of the Department during the year 1920–21 as follows:—

Plant and Machinery.—Under this heading is included all machinery and mechanical appliances used in the work of the Department in the various engineering districts, the following table showing the number of each of the larger machines in use:—

Compressors	4	Donkey-engines	13
Concrete-mixers	2	Oiling-machines	3
Engines, gas and steam	10	Road-graders	197
Hoists	20	Road-ploughs	357
Pile-drivers	17	Road-rollers	12
Pumps	7	Rock-crushers	11
Tractors, traction-engines	23	Painting-machines	1
Steam-shovels	1	Steam-wagons	1
Dredges	1		

Of the above, all are in good condition and are ready for work during the 1921 season.

At different times throughout the year I have inspected most of the plant, in many instances several inspections having been made. Detailed reports of such inspections have previously been submitted. Information is now complete concerning various machines stored at places in the Province, particulars of which were not hitherto available. Some of these machines have been transferred to other districts where they are likely to be more serviceable, while a few others have still to be dealt with.

Generally, the plant and machinery is in good condition, almost all of it being under cover or otherwise protected from the elements. Suitable sheds have been constructed at different points for housing all road equipment when not in use.

Automobiles, Trucks, and Garages.—Altogether there are in the Works Department thirty-six automobiles and forty-seven trucks. The former are of different makes and capacity, but as each replacement or new car is usually either a five-passenger Ford or seven-passenger McLaughlin, in time the cars will be fairly well standardized. I have inspected all these cars during the year, and, excepting for a few old ones, they are in good serviceable condition considering the continuous hard work to which they are subjected.

Naturally the average mileage per car varies considerably throughout the Province, depending upon weather conditions, the nature of the road-surface and the grades encountered. The records show that the cars were generally efficiently operated.

Trucks.—Trucks are gradually supplanting teams in the districts where they can be continuously and economically employed and where suitable teams are not available. At present there are several sizes and makes of trucks, such as Ford 1-ton National and Federal 2½-ton. The Federal truck in particular has given splendid satisfaction, the maintenance cost having been very low and the operation cost normal. The universal transmission that has been fitted to some of the Ford trucks where heavy grades are encountered has proved both efficient and economical.

All the trucks have been inspected, and I find they are in most instances carefully used by the men in charge, particularly when the driver is kept steadily employed on the same vehicle. I should like to emphasize the importance of employing only fully qualified drivers, particularly for the large trucks, so that the operating and maintenance cost can be kept as low as possible.

Garage Facilities.—Except at headquarters, no proper facilities are provided where automobiles can be inspected and repairs undertaken, and consequently the service rendered at some places is not so good as it should be. The plans now under way for the erection and equipment of serviceable garages at one or two of the central points should, however, remedy such existing drawbacks.

Ferries.—With the exception of the ferries on the Lower Mainland under the Chief Inspector of Machinery's jurisdiction, all the power-ferries were periodically inspected and any necessary

renewals or repairs were attended to as soon as possible thereafter. Many of the scows equipped with mechanical power have been materially improved and their serviceability thereby greatly increased. Ferrymen have been instructed as to the proper oiling and care of equipment, with marked satisfactory results. Special attention was given to the ferry at Sorrento–Scotch Creek. A new boat and scow has been provided for this service, equipped with a 16-horse-power, heavy-duty engine made in British Columbia, and has given entire satisfaction.

The engine in the ferry launch on Francois Lake, formerly the source of much trouble and expense, was repaired and materially improved. This boat has, however, outlived its usefulness and the proposed new one will be urgently required to cope with the rapidly increasing traffic in this neighbourhood.

The Nelson Ferry will also be greatly improved when the new boat is introduced. The power-ferries gave generally good service during the past year.

Launch "I'll Away."—This boat has been in almost continuous service throughout the year in the Vancouver Island and Lower Mainland Districts. The engine, which was very old and had given considerable trouble, has been replaced by a new and reliable engine, made in British Columbia, of the heavy-duty type. Although only 16 horse-power as against the 30 horse-power of the old engine, it is operating without trouble, and with a considerable economy in fuel-consumption without loss of speed or power.

General.—I have made inspections of boats and launches for other Government departments during the year and reported direct to the department concerned.

It is, in my opinion, of great advantage to standardize as much as possible the types of all plant and vehicles to facilitate repairs and the stocking of new parts.

In my inspection-work I had the willing assistance of the District Engineers and their assistants, who are all eager to co-operate towards providing the best possible returns from the use of the various classes of machinery and plant.

Respectfully submitted.

J. ARMSTRONG,
Mechanical Superintendent.

Houses built under soldiers' housing scheme, South Vancouver.

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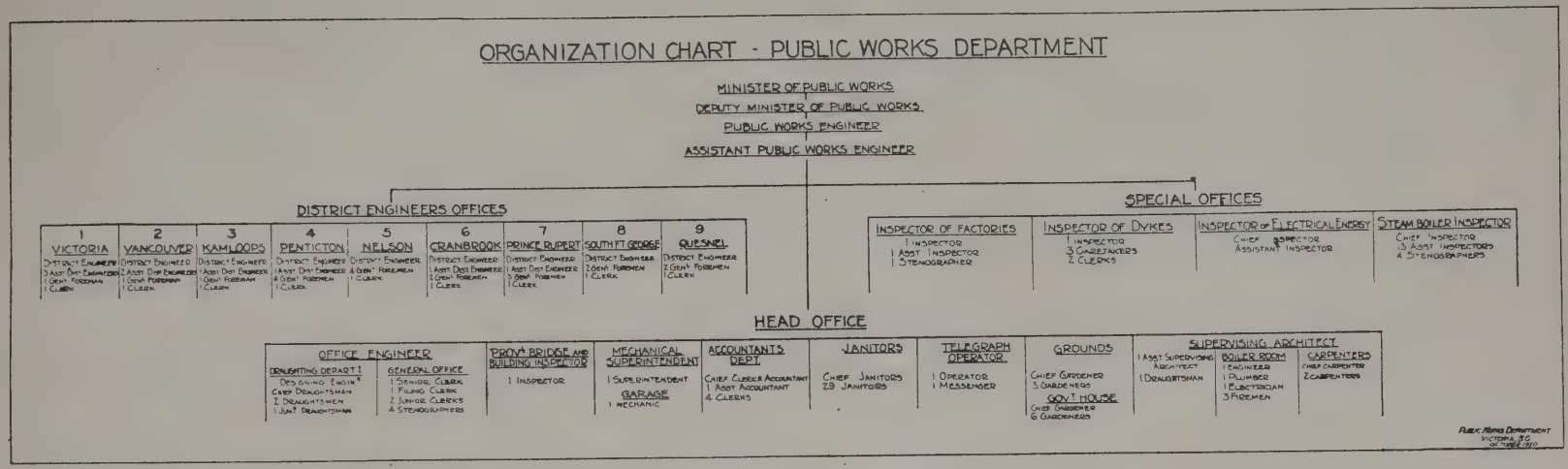
ORGANIZATION CHART - PUBLIC WORKS DEPARTMENT
MINISTER OF PUBLIC WORKS
DEPUTY MINISTER OF PUBLIC WORKS
PUBLIC WORKS ENGINEER
ASSISTANT PUBLIC WORKS ENGINEER
DISTRICT ENGINEERS OFFICES
1 VICTORIA
District Engineer
3 Asst. Dist. Engineers
1 Gen'l. Foreman
1 Clerk
2 VANCOUVER
District Engineer
2 Asst. Dist. Engineers
1 Gen'l. Foreman
1 Clerk
3 KAMLOOPS
District Engineer
1 Asst. Dist. Engineer
1 Gen'l. Foreman
1 Clerk
4 PENTICTON
District Engineer
1 Asst. Dist. Engineer
4 Gen'l. Foremen
1 Clerk
5 NELSON
District Engineer
1 Clerk
6 CRANBROOK
District Engineer
1 Asst. Dist. Engineer
2 Gen'l. Foremen
1 Clerk
7 PRINCE RUPERT
District Engineer
1 Asst. Dist. Engineer
3 Gen'l. Foremen
1 Clerk
8 SOUTH FT. GEORGE
District Engineer
2 Gen'l. Foremen
1 Clerk
9 QUESNEL
District Engineer
2 Gen'l. Foremen
1 Clerk
SPECIAL OFFICES
INSPECTOR OF FACTORIES
1 Inspector
1 Asst. Inspector
1 Stenographer
INSPECTOR OF DYKES
1 Inspector
3 Caretakers
2 Clerks
INSPECTOR OF ELECTRICAL ENERGY
Chief Inspector
Assistant Inspector
STEAM BOILER INSPECTOR
Chief Inspector
13 Asst. Inspectors
4 Stenographers
HEAD OFFICE
OFFICE ENGINEER
DRAUGHTING DEPART.
Designing Engineer
Chief Draughtsman
2 Draughtsmen
1 Jnr. Draughtsman
GENERAL OFFICE
1 Senior Clerk
1 Filing Clerk
2 Junior Clerks
4 Stenographers
PROV. BRIDGE AND BUILDING INSPECTOR
1 Inspector
MECHANICAL SUPERINTENDENT
1 Superintendent
GARAGE
1 Mechanic
ACCOUNTANTS DEPT.
Chief Clerk Accountant
1 Asst. Accountant
4 Clerks
JANITORS
Chief Janitors
29 Janitors
TELEGRAPH OPERATOR
1 Operator
1 Messenger
GROUNDS
Chief Gardener
3 Gardeners
GOV'T HOUSE
Chief Gardener
6 Gardeners
SUPERVISING ARCHITECT
1 Asst. Supervising Architect
1 Draughtsman
BOILER ROOM
1 Engineer
1 Plumber
1 Electrician
3 Firemen
CARPENTERS
Chief Carpenter
2 Carpenters
PUBLIC WORKS DEPARTMENT
VICTORIA, B.C.
OCTOBER 1920

VALUATION OF PLANT, ETC.

STATEMENT AS AT MARCH 31ST, 1921.

Electoral District.	Large Plant.	Tools.	Camp Equipment.	Horses and Harness.	Totals for Equipment.	Totals for Materials *on hand* only.
Alberni	$ 7,503	$ 1,924	$ 329	.....	$ 9,756	....
Atlin	1,720	3,447	1,597	$ 780	7,544	$ 2,474
Cariboo	12,840	2,035	2,636	4,426	21,937	7,238
Chilliwack	9,661	364	35	....	10,060	....
Columbia	15,582	1,321	1,129	674	18,706	1,168
Comox	12,430	3,336	1,767	....	17,533	1,480
Cowichan	7,060	817	105	....	7,982	....
Cranbrook	12,818	1,533	1,300	....	15,651	297
Delta	19,571	570	230	....	20,371	....
Dewdney	14,598	874	260	....	15,732	....
Esquimalt	19,992	2,606	1,533	....	24,131	1,081
Fernie	3,920	482	942	....	5,344	41
Fort George	18,485	2,907	3,571	5,243	30,206	....
Grand Forks	10,500	326	249	....	11,075	315
Greenwood	3,600	1,080	720	....	5,400	....
Islands	621	809	....	....	1,430	....
Kamloops	19,979	2,097	2,583	2,707	27,366	7,990
Kaslo	12,452	1,108	551	....	14,111	412
Lillooet	5,563	526	352	500	6,941	105
Nanaimo	390	446	....	....	836	....
Newcastle	655	567	76	....	1,298	....
North Okanagan	12,260	690	210	....	13,160	....
North Vancouver	2,272	522	310	....	3,104	28
Omineca	5,580	1,582	1,975	5,417	14,554	1,530
Prince Rupert	7,077	3,197	2,512	125	12,911	....
Revelstoke	2,814	1,617	581	....	5,012	73
Richmond	15,603	341	93	....	16,037	....
Rossland	1,034	93	39	....	1,166	....
Similkameen	5,515	1,988	600	....	8,103	1,651
Slocan	2,189	1,482	635	151	4,457	290
South Okanagan	7,882	391	284	....	8,557	1,009
Trail	9,399	1,730	712	....	11,841	143
Yale	6,767	2,105	1,713	535	11,120	293
Totals	$288,332	$ 44,913	$ 29,629	$ 20,558	$383,432	$ 27,618

Grand total, plant, etc. $383,432 00
„ materials only 27,618 00

Rowboats and Canoes.	Painting-machines.	Scrapers (Misc.).	Tents.	Traction-engines, Tractors.	Wagons.	Wagons (Sprinkling).	Wagon (Steam).	Steam-shovels.	Ditchers.	Dredges (Clamshell).
..	1	..	..	..	..	..	..	..	..	..
..	..	22	13	1	5	..	..	..	3	..
3	..	13	26	..	3	..	..	..	..	..
..	..	26	55	2	26	..	..	..	..	..
..	..	7	..	..	..	1	..	..	..	..
3	..	44	15	..	23	..	..	..	..	..
2	..	18	7	3	5	..	..	..	1	..
..	..	8	5	..	6	..	..	..	..	..
..	..	27	25	2	4	..	..	..	5	..
..	..	26	..	..	4	..	..	..	..	..
..	..	19	..	1	4	..	..	..	..	1
..	..	24	..	2	7	1	..	..	..	..
..	..	11	10	..	..	..	..	..	1	..
..	..	21	56	2	17	..	..	..	2	..
..	..	7	7	..	..	1	..	..	..	..
..	..	19	8	..	1	..	..	..	..	..
..	..	6	..	..	2	..	..	..	..	..
..	..	13	30	2	15	1	..	..	..	..
..	..	22	7	2	..	1	..	..	..	..
..	..	16	10	..	9	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..
..	..	4	5	..	..	..	..	..	..	..
..	..	29	2	1	2	..	1	..	..	..
..	..	9	6	1	..	..	..	..	..	..
..	..	41	..	..	13	..	..	1	..	..
2	..	25	27	..	10	..	..	..	..	..
1	..	28	8	..	4	..	..	..	..	..
2	..	..	1	1	..	..	..	..	..	..
..	..	..	1	..	1	..	..	..	1	..
1	..	71	16	..	..	..	..	..	..	..
..	..	14	13	..	4	..	..	..	1	..
..	..	33	4	2	4	..	..	..	..	..
..	..	4	15	1	6	..	..	..	1	..
..	..	5	21	..	15	..	..	..	..	..
14	1	615	393	23	190	5	1	1	15	1

Electoral District.	Automobiles.	Auto-trucks.	Carts	Cars (Dump).	Compressors.	Concrete-mixers.	Derricks.	Donkey-hoists (Gasolene).	Donkey-hoists (Steam).	Engines (Gas.).	Engines (Steam).	Forges (Portable).	Graders.	Harness (Sets).	Horses.	Mechanical Loaders.	Oiling-machines.	Pile-drivers.	Pile-drivers (Hammers only).	Ploughs.	Pumps.	Rollers (Gas.).	Rollers (Horse).	Rollers (Steam).	Road-drags.	Rock-crushers.	Rowboats and Canoes.	Painting-machines.	Scrapers (Misc.).	Tents.	Traction-engines, Tractors.	Wagons.	Wagons (Sprinkling).	Wagon (Steam).	Steam-shovels.	Ditchers.	Dredges (Clamshell).
Headquarters and general	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Alberni	1	4	..	..	..	..	..	..	1	1	..	6	5	..	..	..	..	..	1	9	..	..	2	..	7	2	..	..	22	13	1	5	..	..	..	3	..
Atlin	..	..	4	..	..	..	..	..	..	..	..	7	..	4	2	..	..	1	..	7	..	..	..	..	2	..	3	..	13	26	..	3	..	..	..	..	..
Cariboo	2	1	8	..	..	..	..	..	..	..	..	10	16	34	16	..	..	1	3	25	..	..	4	..	3	..	..	..	26	55	2	26	..	..	..	..	..
Chilliwack	..	1	..	..	1	..	..	..	1	..	..	2	6	..	..	..	..	..	..	2	..	..	1	..	7	1	..	..	7	..	..	..	1	..	..	..	..
Columbia	1	3	6	2	..	1	..	..	1	..	..	5	10	15	..	..	..	..	2	31	1	..	2	..	3	..	3	..	44	15	..	23	..	..	..	..	..
Comox	1	3	6	..	..	..	..	..	1	1	..	10	7	6	..	..	..	..	3	6	1	1	1	..	13	..	2	..	18	7	3	5	..	..	..	1	..
Cowichan	1	1	2	..	..	..	..	..	..	..	..	2	4	..	..	..	..	2	2	7	..	1	..	..	15	1	..	..	8	5	..	6	..	..	..	..	..
Cranbrook	3	2	..	..	..	..	..	..	..	..	..	7	6	..	..	1	..	1	1	18	..	1	..	..	1	..	..	..	27	25	2	4	..	..	..	..	..
Delta	1	3	3	..	..	..	..	..	..	..	..	..	4	..	..	1	..	..	1	11	1	1	1	..	6	..	..	..	26	..	..	4	..	..	..	..	..
Dewdney	1	1	5	..	1	..	..	..	..	..	1	2	6	..	..	1	1	..	1	7	..	1	2	..	4	1	..	..	19	..	1	4	..	..	..	..	1
Esquimalt	2	2	..	..	..	..	..	..	1	..	..	5	6	..	..	1	..	..	..	9	..	..	1	..	3	1	..	..	24	..	2	7	1	..	..	..	..
Fernie	2	1	..	..	..	..	..	..	..	1	..	..	5	..	..	..	..	1	..	4	..	..	1	..	..	..	..	..	11	10	..	..	..	..	..	1	..
Fort George	3	1	3	..	..	..	..	..	..	..	..	..	7	10	19	..	..	1	2	17	..	1	..	..	1	..	..	..	21	56	2	17	..	..	..	2	..
Grand Forks	1	1	..	..	1	..	..	..	1	..	2	..	2	..	..	..	..	..	1	5	..	1	1	..	7	1	..	..	7	7	..	..	1	..	..	..	..
Greenwood	1	1	6	..	..	..	..	..	..	..	..	2	6	4	..	..	..	..	..	10	..	..	1	..	5	..	..	..	19	8	..	1	..	..	..	..	..
Islands	..	2	..	..	..	..	..	..	..	..	..	2	2	..	..	..	1	..	..	12	..	..	1	..	5	1	..	..	6	..	..	2	..	..	..	..	..
Kamloops	2	2	..	..	..	..	..	1	..	..	..	8	10	8	12	..	..	1	1	13	..	1	..	..	1	2	..	..	13	30	2	15	1	..	..	..	..
Kaslo	..	1	3	..	..	..	..	..	..	..	..	3	3	2	..	..	..	..	..	8	..	1	..	..	3	1	..	..	22	7	2	..	1	..	..	..	..
Lillooet	1	1	4	..	..	1	1	1	1	..	1	2	11	7	4	..	..	..	..	3	3	..	..	1	..	..	..	..	16	10	..	9	..	..	..	..	..
Nanaimo	..	1	..	..	..	..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..	..	..
Newcastle	..	1	..	..	..	..	..	..	..	..	..	5	3	..	..	..	..	..	1	2	..	..	..	..	10	..	..	..	4	5	..	..	..	..	..	..	..
North Okanagan	1	1	..	3	..	..	..	..	1	1	..	6	11	..	..	1	..	2	2	28	..	..	..	..	2	..	..	..	29	2	1	2	..	1	..	..	..
North Vancouver	1	1	..	..	..	..	..	1	1	..	..	5	1	..	..	..	..	..	3	6	..	..	..	..	3	..	..	..	9	6	1	..	..	..	..	..	..
Omineca	1	..	3	..	..	..	..	1	..	..	..	9	8	..	..	..	..	1	1	19	..	..	..	..	1	..	..	..	41	..	..	13	..	..	1	..	..
Prince Rupert	..	1	5	..	..	..	..	2	..	1	..	11	4	5	1	..	..	2	4	16	..	..	1	..	2	..	2	..	25	27	..	10	..	..	..	..	..
Revelstoke	1	1	..	..	..	..	..	..	1	..	..	3	4	..	..	..	..	..	1	1	13	..	..	1	..	2	..	1	..	28	8	..	4	..	..	..	..	..
Richmond	1	1	..	..	..	..	..	1	..	..	1	..	2	..	..	..	..	1	..	2	1	1	..	..	..	..	2	..	..	1	1	..	..	..	..	..	..
Rossland	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..
Similkameen	1	2	6	..	..	..	..	..	..	..	..	9	14	4	..	..	1	..	1	20	..	..	3	1	6	..	1	..	71	16	..	..	..	..	..	..	..
Slocan	..	..	..	..	..	..	..	..	1	..	..	5	4	1	1	..	..	..	..	12	..	..	..	..	..	..	..	..	14	13	..	4	..	..	..	1	..
South Okanagan	3	2	..	2	..	..	1	..	1	..	..	4	11	..	..	..	..	..	1	17	..	..	1	..	10	..	..	..	33	4	2	4	..	..	..	..	..
Trail	1	2	6	1	1	..	..	..	1	..	..	8	5	11	..	..	..	..	1	27	..	..	..	..	6	..	..	..	4	15	1	6	..	..	..	1	..
Yale	1	2	1	..	..	..	..	..	..	..	..	7	13	8	2	..	..	..	2	11	..	..	..	..	3	..	..	..	5	21	..	15	..	..	..	..	..
Totals	36	46	67	10	4	2	2	7	13	5	5	147	198	119	57	4	3	17	35	357	7	10	24	2	135	11	14	1	615	393	23	190	5	1	1	15	1

Coal Creek Bridge (60-foot King truss), Fernie District. Erected by day-labour, spring of 1921.

Day-labour work. Steam-shovel grading before being smoothed off with grader. Note the good crown on road. North Francois Lake Road, Omineca.

Road-grade made by steam-shovel and light patrol grader, Colleymount Road. Day-labour.

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MILEAGE AND TYPE OF CONSTRUCTION.

STATEMENT AS AT MARCH 31st, 1921.

Electoral District.	ORDINARY.		GRAVEL.		MACADAM.		PAVED.		BITULITHIC CARPET.		TOTALS.		Total Mileage.
	Organized.	Unorganized.	Organized.	Unorganized.	Organized.	Unorganized.	Organized.	Unorganized.	Organized.	Unorganized.	Organized.	Unorganized.	
Alberni	....	306.50	5.80	274.00	....	....	....	....	....	....	5.80	580.50	586.30
Atlin	....	245.00	....	54.00	....	....	....	....	....	....	....	299.00	299.00
Cariboo	....	1,230.00	....	100.00	....	....	....	....	....	....	....	1,330.00	1,330.00
Chilliwack	....	31.10	47.25	4.50	....	....	....	....	1.60	....	48.85	35.60	84.45
Columbia	....	369.50	....	82.30	....	....	....	....	....	....	....	451.80	451.80
Comox	....	32.60	....	392.40	....	....	....	....	....	....	....	425.00	425.00
Cowichan	....	10.00	14.00	180.00	....	....	....	....	....	....	14.00	190.00	204.00
Cranbrook	....	174.91	....	70.13	....	....	....	....	....	....	....	245.04	245.04
Delta	....	....	29.90	....	2.50	....	6.80	....	....	....	39.20	....	39.20
Dewdney	....	38.08	31.75	25.35	2.00	7.85	1.00	....	12.95	2.00	47.70	73.48	121.18
Esquimalt	....	12.25	20.00	312.00	1.00	1.00	....	3.10	2.00	....	23.00	328.35	351.35
Fernie	....	73.00	....	103.10	....	....	....	....	....	....	....	176.10	176.10
Fort George	..	*858.80 †174.00	....	4.00	....	....	....	....	....	....	....	‡1,036.00	1,036.00
Grand Forks	....	228.70	....	31.30	....	4.00	....	....	....	....	....	264.00	264.00
Greenwood	....	317.60	....	75.00	....	....	....	....	....	....	....	392.00	392.00
Islands	....	68.55	....	220.70	....	....	....	....	....	....	....	289.25	289.25
Kamloops	12.00	1,212.00	8.00	210.00	4.00	8.00	....	....	....	....	24.00	1,430.00	1,454.00
Kaslo	....	218.75	....	30.00	....	0.75	....	....	....	....	....	249.50	249.50
Lillooet	....	1,530.75	....	298.25	....	9.50	....	....	....	....	....	1,838.50	1,838.50
Nanaimo	....	5.00	....	52.00	....	....	....	....	....	....	....	57.00	57.00
Nelson (Fairview)	....	10.00	....	1.56	....	....	....	....	....	....	....	11.56	11.56
Newcastle	....	25.00	0.50	210.00	....	....	....	....	....	....	0.50	235.00	235.50
New Westminster	....	0.20	....	0.20	....	....	....	....	0.13	0.54	0.13	0.94	1.07
North Okanagan	....	602.50	28.50	162.80	....	....	....	....	....	....	28.50	765.30	793.80
North Vancouver	....	153.80	....	64.50	....	....	....	2.50	....	....	....	220.80	220.80
Omineca	....	791.00	....	16.00	....	....	....	....	....	....	....	807.00	807.00
Prince Rupert	....	390.00	....	46.00	....	....	....	....	....	....	....	436.00	436.00
Revelstoke	....	200.95	....	38.00	....	....	....	....	....	....	....	238.95	238.95
Richmond	7.10	....	....	....	5.40	....	3.10	....	7.20	....	22.80	....	22.80
Rossland	....	44.20	....	7.00	....	....	....	....	....	....	....	51.20	51.20
Saanich	....	....	7.70	....	....	....	....	....	....	....	7.70	....	7.70
Similkameen	....	490.00	2.30	140.00	0.30	....	....	....	....	....	2.60	630.00	632.60
Slocan	....	312.75	....	15.00	....	....	....	....	....	....	....	327.75	327.75
South Okanagan	7.00	400.00	7.00	120.00	....	....	....	....	....	....	14.00	520.00	534.00
South Vancouver	....	....	2.00	....	§1.80 0.90	....	2.90	....	5.80	....	13.40	....	13.40
Trail	....	347.10	....	60.50	....	....	....	....	....	....	....	407.60	407.60
Yale	2.00	573.00	4.00	210.00	....	....	....	....	....	....	6.00	783.00	789.00
Totals	28.10	11,476.99	208.70	3,610.79	17.90	31.10	13.80	5.60	29.68	2.54	298.18	15,127.02	15,424.40

* Cleared only. † Graded. ‡ Of this total, 858 miles only cleared. § Planked.

STATEMENT OF EXPENDITURE.

Salaries and Expenses.

VOTE 243—MINISTER'S OFFICE.

Salaries		$ 7,918 00
Expenses:		
Travelling	$1,990 55	
Office	768 13	
		2,758 68
Total		$ 10,676 68

VOTE 244—ADMINISTRATION.

Salaries		$ 54,101 68
Expenses:		
Travelling	$3,388 10	
Office	7,100 75	
		10,488 85
Total		$ 64,590 53

VOTE 245—MAINTENANCE OF PARLIAMENT BUILDINGS AND GROUNDS.

Salaries		$ 56,204 00
Expenses:		
Fuel, light, and water	$27,760 89	
Maintenance and repairs to buildings	20,434 02	
Gardening and grounds	8,125 94	
Scavenging, cleaning, and janitors' supplies	2,409 68	
Telephones	343 57	
Taxes	1,040 16	
Garage	2,886 67	
Miscellaneous	223 23	
Pictures	1,700 00	
		64,924 16
Total		$ 121,128 16

VOTE 246—MAINTENANCE OF GOVERNMENT HOUSE AND GROUNDS.

Salaries		$ 3,615 00
Fuel, light, and water	$3,221 95	
Maintenance and repairs of buildings	4,044 89	
Gardening and grounds	8,746 43	
Taxes	449 28	
Miscellaneous	722 56	
		17,185 11
Total		$ 20,790 11

VOTE 247—DISTRICT ENGINEERS.

Salaries		$ 38,073 68
Expenses:		
Travelling	$13,755 71	
Office	9,573 04	
		23,328 75
Total		$ 61,402 43

VOTE 248—STEAM-BOILER INSPECTION.

Salaries		$ 40,838 89
Expenses:		
Travelling	$7,006 60	
Office	3,186 17	
Launch	3,644 98	
Testing instruments, etc.	39 10	
		13,876 85
Total		$ 54,715 74

VOTE 249—"ELECTRICAL ENERGY INSPECTION ACT."

Salaries		$ 5,331 85
Expenses:		
Travelling	$1,346 74	
Office	579 70	
		1,926 44
Total		$ 7,258 29

VOTE 250—"FACTORIES ACT."

Salaries		$ 6,060 00
Expenses:		
Travelling	$2,191 97	
Office	317 83	
		2,509 80
Total		$ 8,569 80

Roads, Streets, Bridges, and Wharves.

(VOTE 251.)

ROADS, TRAILS, AND STREETS.

Alberni District.

Road—Auld's		$ 175 44
" Bainbridge		553 81
" Bamfield		751 72
" Barker		45 00
" Batty		113 87
" Baynes		227 58
" Beaver Creek		1,077 60
" Beaver Creek–Wharf		140 24
" Bellevue		154 99
" Biggs and Crossan		66 66
" Biological Station		147 39
" Bowman		74 75
" Brickyard		43 50
" Buck's		23 25
" Canadian Highway		7,409 36
" Central Lake		453 42
" Cherry Creek		142 24
" China Creek		446 62
" Church Creek		375 10
" City of Alberni		811 11

Alberni District—Continued.

Road—Clarke	$	159 76
„ Claudet		6 37
„ Clayoquot		1,969 32
„ Comox		52 75
„ Coombs		342 00
„ Compton		256 33
„ Dawson's		127 73
„ Deep Bay		129 00
„ Departure Bay		253 58
„ Dickenson		18 00
„ Drinkwater's		7 75
„ Dumont		92 87
„ Dunn's		54 00
„ Errington Cross		568 58
„ Faber's		46 85
„ Fayette's		23 36
„ Fisher's		127 39
„ Flores Island		499 25
„ Garden		93 50
„ Giant Powder Co.		154 67
„ Gilbert		346 55
„ Glenville		207 70
„ Grafton Avenue		405 17
„ Grandview		17 47
„ Greig's		385 45
„ Greenard's		41 75
„ Harloch		148 45
„ Hector's		222 55
„ Hillier's		446 61
„ Holberg		3,287 04
„ Horne Lake		29 00
„ Island Highway		12,458 99
„ Jenkin's		232 32
„ Jenson's		149 62
„ Kitsuksis		186 96
„ Lagoon		72 49
„ Lake Shore		345 15
„ Leffler		202 95
„ Limestone		75 10
„ Lowrey and Craig		159 87
„ Maggie Lake		24 25
„ Martindale		22 25
„ Matterson		106 12
„ Milltown		65 46
„ Mission		10 25
„ Morelle's		10 12
„ Morrison		191 52
„ McCoy Lake		101 27
„ McKenzie		35 49
„ McKibbon		45 96
„ Nanoose		186 43
„ Noot and Bland		74 37
„ Nootka		1,446 44
„ North-west Bay		269 33
„ Old Wellington		128 40
„ Parksville Cross		304 55

Alberni District—Continued.

Road—Peninsula–Ucluelet		$ 43 25
„ Pillar's		73 00
„ Popham		78 35
„ Port Alberni		327 24
„ Price		101 45
„ Pym's		129 49
„ Quatsino		592 04
„ River		227 76
„ Rogers		199 73
„ San Josef		385 32
„ School-house		220 00
„ Sea Otter Cove		47 23
„ Seeney		101 99
„ Shearme		344 12
„ Somers		39 25
„ Spooner's		194 88
„ Sproat Lake		542 55
„ Starkey and Stewart		63 37
„ Station		37 14
„ Stewart		6 25
„ Stranby		730 66
„ Stump Falls		36 00
„ Superior		430 97
„ Swayne's		142 75
„ Temple and Reid		72 75
„ Thompson's		7 74
„ Turner and Rutherford		199 10
„ Virginia		476 57
„ Wadey's		500 74
„ Walker's		222 00
„ Wallace		105 03
„ Ward's		52 75
„ Winchester		310 50
„ Wither's		110 37
„ Wright's		69 25
Plant and tools		3,025 61
Camp equipment		73 94
General roads		2,349 60
Supervision—Assistant Engineer	$2,957 42	
„ Office	1,345 04	
„ Auto	779 65	
		5,082 11
Compensation, auto accident, M. Campbell		45 00
Total		$ 58,457 96

Summary.

Expenditure	$58,299 96
Transferred from Comox	158 00
Total	$58,457 96

Atlin District (North).

Road—Atlin–Surprise	$ 454 85
„ Birch Creek	52 25
„ Boulder Creek	187 25
„ Fourth of July–Fox Farm	65 50

Atlin District (North)—Continued.

Road—Indian River		$ 273 00
„ Klehini River		334 00
„ McKee Creek		168 00
„ O'Donnel River		82 50
„ Otter Creek		118 25
„ Rainy Hollow		207 50
„ Ruby Creek		439 50
„ Stephendyke		22 00
„ Spruce Creek		435 50
„ Volcano Creek		1,078 45
„ Wilson Creek		220 00
„ Wright Creek		145 75
Trail—Big Horn		22 00
„ Glacier–Llewellyn		60 00
„ Lincoln Creek		151 25
Street—Atlin		44 00
„ Discovery		95 75
Plant and tools		95 70
Camp equipment		11 50
Material		118 65
Stable		2,290 71
Supervision—General Foreman	$2,068 25	
„ Office	68 35	
		2,136 60
Total		$ 9,310 46

Atlin District (South).

Road—Ayansh–Grease Harbour		$ 145 00
„ Ayansh–Sand Creek		775 60
„ Alice Arm		1,163 75
„ Bear River		3,851 47
„ Grease Harbour–Cranberry		277 41
„ Grease Harbour (west)		197 50
„ Nass Harbour–Echo Cove		712 13
„ Salmon River		356 25
„ Stewart–Hyder		1,714 87
„ Stewart–Wynes		400 00
Trail—American		51 75
„ Bear River		348 90
„ Bitter Creek		404 00
„ Climax		1,830 26
„ Glacier Creek		549 88
„ Illiance		108 50
„ Kitsault River		5,184 92
„ Kitsault River (north-east)		126 50
„ Marmot		48 88
„ Mosquito		51 75
„ Vanguard		50 00
Bridge—Approach, Bitter Creek		871 25
„ Priestley Slough		5 00
Camp equipment		372 87
Supervision—General Foreman	$3,040 02	
„ Office	250 76	
		3,290 78
Total		$ 22,889 22

Atlin District (Telegraph Creek.)

Road—Casca		$ 72 25
„ Dease–McDame		100 00
„ Glenora		205 12
„ Telegraph–Dease		325 12
Trail—Dease		696 72
„ Klappen		283 00
„ Teslin		771 74
„ Thibert Creek		98 37
Street—Telegraph		856 25
Plant and tools		156 94
Camp equipment		34 50
Supervision—Office		12 58
Total		$ 3,612 59

Summary.

North Atlin	$ 9,310 46
South Atlin	22,889 22
Telegraph Creek	3,612 59
Total	$35,812 27

Cariboo District (North).

Road—Alexandria Ferry		$ 125 50
„ Alexandria–Quesnel		2,866 32
„ Barkerville–Bear Lake		454 59
„ Barkerville–Bulkhead		133 35
„ Big Prairie–White's Landing		87 41
„ Cottonwood–Willow River		200 00
„ Dibbs–Cottonwood Canyon		22 44
„ Dragon Lake		807 08
„ Main Trunk		12,190 96
„ Quesnel–Blackwater		506 18
„ Quesnel–Fort George		22 31
„ Quesnel Forks		1,530 64
„ Quesnel–Nazko		2,447 78
„ Ruchon Creek		200 00
„ Winter		3,333 64
Trail—Stony Lake		399 85
Street—Quesnel		213 97
Plant and tools		2,933 81
Camp equipment		884 95
Supervision—Assistant Engineer	$ 502 65	
„ General Foreman	3,070 52	
„ Office	240 40	
„ Auto	586 24	
		4,399 81
Total		$ 33,760 59

Cariboo District (South).

Road—Alexis Creek–Nazko		$ 496 68
„ Beaver Lake–Beavermouth		81 90
„ Beaver Valley		832 32
„ Beedey Creek Valley		343 20
„ Cariboo Main		5,288 18
„ Chilanko Forks–Chezacut		695 46
„ Chilcotin Main		4,473 38

Cariboo District (South)—Continued.

Road—Chilcotin–Soda Creek		$ 565 17
„ Chimney Valley		38 67
„ Hanceville–Alexis Creek		668 85
„ Horsefly–Woodjam		290 10
„ Mackin Creek–Soda Creek		502 45
„ Mission		30 87
„ Mud Lake		556 72
„ 108-Mile–Harpers Camp		413 36
„ 137-Mile–Springhouse		521 50
„ 150-Mile–Harpers Camp		3,153 36
„ 152-Mile Diversion		1,691 00
„ 153-Mile–Horsefly		22 75
„ 158-Mile–Quesnel Forks		1,456 57
„ 177-Mile–Beaver Lake		694 52
„ Peavine Ridge		1,477 92
„ Quesnel Dam		402 52
„ Quesnel Forks–Keithley Creek		1,855 50
„ Quesnel Forks–Quesnel Lake		27 90
„ Soda Creek–Alexandria		670 80
„ Soda Creek–Chimney Creek		1,321 38
„ Soda Creek Ferry (west approach)		1,426 94
„ Soda Creek–Williams Lake		587 08
„ Upper Horsefly		2,266 60
„ Williams Lake–Springhouse		1,813 35
Plant and tools		903 50
Camp equipment		138 05
Supervision—Assistant Engineer	$ 237 09	
„ General Foreman	3,383 93	
„ Office	143 61	
		3,764 63
Total		$ 39,473 18

Summary.

Cariboo District (North)	$33,760 59
Cariboo District (South)	39,473 18
Total	$73,233 77

Chilliwack District.

Road—Abbotsford–Riverside	$ 3,567 34
„ Abbotsford Townsite	954 71
„ Agassiz–Rosedale	1,507 15
„ Chilliwack River	736 65
„ Clayburn–Straiton	200 00
„ Columbia Valley	736 51
„ Huntingdon Townsite	419 08
„ Parsons Hill–Ryder Lake	2 00
„ Provincial Highway, Section 1	3,498 72
„ Provincial Highway, Section 2	1,062 62
„ Provincial Highway, Section 4	123 24
„ Provincial Highway, Section 5	4,405 47
„ Provincial Highway, Section 7	4,699 27
„ Provincial Highway, Section 10	2,854 30
„ Provincial Highway, Section 11	3,272 71
„ Sumas Mountain	299 50
„ Vedder Mountain Quarry	60 00

Chilliwack District—Continued.

Compensation, A. and G. Carter		$ 366 00
Material		135 00
Supervision—Assistant Engineer	$1,291 20	
„ Office	593 96	
„ Auto	531 12	
		2,416 28
Total		$ 31,316 55

Columbia District.

Road—Athalmer	$ 368 13
„ Banff–Mount Assiniboine	356 25
„ Beard's Creek Extension	508 93
„ Beard's Creek (south)	407 09
„ Blaeberry School	8 50
„ Brisco	893 26
„ Brisco (south)	14 25
„ Campbell	351 70
„ Canyon Creek	434 78
„ Canyon Creek (McBreath Branch)	394 21
„ Carbonate–Spruce Camp	54 00
„ De Crespigny	253 25
„ De Geordie	1,005 86
„ Findlay Creek	335 64
„ Forster's Landing	354 88
„ Golden–Donald (lower)	483 39
„ Golden–Donald (upper)	2,017 08
„ Golden–Laughlin	79 49
„ Graham	763 36
„ Granite	24 36
„ Hartley	91 85
„ Holmes and Deakin	60 98
„ Horsethief	767 06
„ Invermere Siding	109 00
„ Johnston	158 77
„ Kettleson	21 25
„ Madden	14 88
„ Main Trunk (east)	7,317 32
„ Main Trunk (west)	4,196 71
„ Mitchell	138 39
„ Moberly Branch	15 75
„ Oberg and Johnson	23 60
„ Ottason	814 17
„ Palliser	53 06
„ Paradise Mine	854 32
„ Ptarmigan Mine	24 68
„ Red Rock	159 50
„ Sanborn–Hamilton	3,635 15
„ Scott	181 78
„ Sinclair Loop	64 00
„ Spence	14 73
„ Toby	2,041 51
„ Toby Creek Cut-off	2,295 10
„ Toby Hill	7 75
„ Watt	238 21
„ Wilmer Pontoon	34 50
„ Windermere Cemetery	7 50

Columbia District—Continued.

Road—Windermere Loop		$ 217 99
„ Windermere Siding		2 75
„ General Roads		5 50
Trail—Horsethief		2 80
„ Jubilee Mountain		18 00
„ Sole's		126 00
Street—Athalmer		383 05
„ Golden		2,129 52
„ Invermere		560 55
„ Wilmer		295 90
Plant and tools		2,397 77
Material on hand		361 21
Camp equipment		968 65
Supervision—Assistant Engineer	$2,648 10	
„ Office	1,792 01	
„ Auto	570 95	
		5,014 06
Total		$ 44,933 68

Comox District.

Road—Alert Bay		$ 442 56
„ Anderton		1,356 55
„ Back		318 83
„ Bristol		183 00
„ Burns and Parkin		59 25
„ Butcher's		193 86
„ Cache Creek–Shushartie		49 11
„ Cessford's		161 81
„ Comox–Hardy		116 74
„ Concession, No. 1		54 00
„ Concession, No. 2		895 87
„ Cortes Island		1,250 09
„ Courtenay–Comox		1,333 13
„ Cowie, John		278 34
„ Creech		165 92
„ Cross, Bridge's		44 24
„ Cross, Hodgson's		177 30
„ Cross, Rennison's		6 87
„ Cross, Ryan's		26 88
„ Cross, Smith's		834 01
„ Cross, Union		55 00
„ Cumberland–Comox		1,439 59
„ Cumberland–Courtenay		1,230 27
„ Cumberland–Dove Creek		81 52
„ Cumberland–Roy's		3,402 83
„ Denman Island		935 83
„ Fraser and Harrigan		919 93
„ Hardy		2 38
„ Hardy Bay–Coal Harbour		9 50
„ Hardy Bay–Kain's Lake		85 23
„ Hawkins and McClusky		6 38
„ Higgins and Knight		99 04
„ Hornby Island		563 36
„ Huband's		42 29
„ Hugh Marsden's		169 26

Comox District—Continued.

Road—Killand's		$ 34 00
„ Kirby		2 12
„ Lake Trail Road No. 52		432 66
„ Lake Trail–No. 7 Mine		866 97
„ Lake Trail–Power-house		142 32
„ Lasqueti Island		1,474 55
„ Lever's		3 43
„ Little River		320 75
„ Lot 117		8 50
„ Lot 176		19 00
„ Lot 231		83 64
„ Lund–Malaspino		651 85
„ Lund–Powell River		1,227 84
„ Macdonald, F.		72 99
„ Malcolm Island		249 69
„ Marsden and Kilpatrick		586 99
„ Mary Island		31 12
„ Milligan and Parkins		75 87
„ Minto School		340 66
„ Muir and Hawkins		61 12
„ McQuillan and Piercy		40 10
„ Powell Lake–Olsen Lake		434 50
„ Powell River–Cranberry Lake		57 50
„ Powell River–Grief Point		1,776 64
„ Powell River–Wharf		11 00
„ Read Island		102 49
„ Ryan and Hudson		54 11
„ Salmon River		620 26
„ Sandwick–Bridges		1,693 25
„ Savary Island		30 50
„ Section 33, Township 4		27 62
„ Section 33, Union Bay		49 62
„ Sharpe and Moore		4 25
„ Smith and Ledingham		3 44
„ Texada Island		3,482 22
„ Thunder Bay–Stillwater		129 12
„ Thunder Bay–Roberts		8 50
„ Torrent's		679 14
„ Valdes Island		2,291 60
„ Victoria–Campbell River		23,554 90
Trail—Jackson Bay		25 49
Street—Cumberland		28 34
Plant and tools		4,557 38
Powder-house		168 92
Camp equipment		215 03
Material on hand		1,603 77
Supervision—Assistant Engineer	$2,693 15	
„ Office	1,610 53	
„ Auto	715 83	
„ Launch	172 05	
		5,191 56
		$ 70,518 09
Expenditure	$70,676 09	
Less transferred to Alberni District	158 00	
Total	$70,518 09	

Cowichan District.

Road—Beach	$	521 83
„ Bear Valley		91 00
„ Bench		338 86
„ Bowden–Vaux		92 51
„ Cameron–Taggart		220 00
„ Caven		56 00
„ Chapman (new)		166 35
„ Chapman (old)		50 25
„ Cherry Point		355 26
„ Cobble Hill Crossing		171 73
„ Cowichan Lake		4,107 62
„ Cowichan Lake (north)		17 00
„ Cowichan Lake (south)		112 14
„ Cowichan River		13 76
„ Cuthbert		50 00
„ Deloume		49 31
„ Duncan		111 15
„ Duncan–Sahtlam		78 80
„ Fisher		161 17
„ Glenora		599 29
„ Glenora Cross		56 00
„ Halewood		50 00
„ Halhead		377 46
„ Hillbank		1 30
„ Hopkins Swamp		36 00
„ Howie		36 61
„ Indian		708 01
„ Keating		100 00
„ Koksilah Flats		151 40
„ Koksilah Mines		206 25
„ Koksilah–Riverside		246 64
„ LaFortune		47 27
„ Lakeside		552 33
„ Lane		49 76
„ Manley		15 14
„ Marshall		50 00
„ Moss		51 26
„ McKinley–Doupe		174 62
„ Old Koksilah		1,221 41
„ Old School-house		200 58
„ Old Victoria		1,967 31
„ Parker		62 35
„ Prior		50 00
„ Riverside Drive		88 03
„ Rowe's		71 88
„ Sahtlam River		414 00
„ Shawnigan–Mill Bay		622 86
„ Shawnigan–Mill Bay Diversion		591 59
„ Sheppard		30 00
„ Silver-mine		232 23
„ Stevens		69 00
„ Soole		44 38
„ Telegraph		271 44
„ Thain		179 25
„ Victoria–Campbell River		12,499 87
„ Wallich–Hillbank		103 18

Cowichan District—Continued.

Road—Waters		$ 738 88
„ Whisky Point		38 62
„ Wilkinson		312 06
„ Wilson		154 01
Trail—Clo-oose		1,101 84
Street—Cowichan Avenue		50 00
Plant and tools		1,472 44
Camp Equipment		206 10
Material on hand		35 55
Supervision—Assistant Engineer	$1,405 88	
„ Office	680 47	
„ Auto	502 63	
		2,588 98
Total		$ 35,692 12
Less credit, Cobble Hill Crossing		418 62
Total		$ 35,273 50

Cranbrook District.

Road—Baker	$ 65 00
„ Barnhardt	154 75
Buena Vista Subdivision	48 50
Road—Cor's	18 00
„ Cranbrook (adjacent to city)	130 50
„ Cranbrook–Baker Mountain	125 25
„ Cranbrook–Ferry Creek	50 00
„ Cranbrook–Gold Creek	310 67
„ Cranbrook–Kingsmill	292 65
„ Cranbrook–Kimberley	9,447 36
„ Cranbrook–Mission	1,153 46
„ Cranbrook–Moyie	1,817 06
„ Cranbrook–New Lake	10 13
„ Cranbrook–Wardner	2,866 63
„ Cross	42 25
„ Curzon Junction–Kingsgate	3,877 01
„ Eager Hill–Fort Steele	2,284 81
„ Gold Creek Settlement	185 63
„ Green	262 50
„ Green Bay	218 06
„ Ha-ha Settlement	197 50
„ Hanson–Campbell	223 49
„ Horie Subdivision	489 53
„ Kelly	994 24
„ Kimberley–Cherry Creek	125 88
„ Kimberley–North Star	283 50
„ Kingsmill	341 75
„ Kootenay Orchards	179 75
„ Mission–Marysville	788 11
„ Mission–Wasa (lower)	44 75
„ Mission–Wasa (upper)	2,100 00
„ Monroe Lake	79 50
„ Moyie–Goatfell	724 61
„ McPhee	614 75
„ Peglin	874 00
„ Perry Creek	67 60
„ Society Girl Mine	97 00

Cranbrook District—Continued.

Road—St. Eugene Mine		$ 196 50
„ St. Joseph Settlement		561 26
„ St. Mary Lake		1,252 75
„ Waldo Settlement		514 00
„ Wanklyn School		75 63
„ Wasa Bridge–Canal Flats		955 35
„ Wycliffe–Cherry Creek		475 20
„ Yahk–Goatfell		68 15
Trail—French Creek		50 00
„ Hot Springs		49 50
Street—Kimberley		3,129 83
„ Moyie		177 40
„ Slaterville		706 46
„ Wardner		212 88
„ Yahk		281 45
Plant and tools		2,206 58
Camp equipment		1,563 12
„ Material on hand		604 39
Supervision—General Foreman	$2,234 00	
„ Auto	844 07	
		3,078 07
Total		$ 47,744 70

Delta District.

Road—Cloverdale Bunkers		$ 80 89
„ McLellan		170 01
„ Pacific Highway		4,537 04
„ Provincial Highway, Section 1		6,969 61
„ Provincial Highway, Section 2		7,502 30
„ Provincial Highway, Section 3		2,336 64
„ Scott		1,000 00
Plant and tools		137 73
Supervision—Assistant Engineer	$1,304 50	
„ Office	628 50	
„ Auto	510 53	
		2,443 53
Total		$ 25,177 75

Dewdney District.

Road—Beaulieu		$ 475 00
„ Cedar Valley		107 00
„ Deroche		25 00
„ Deroche and Athey		268 23
„ Dewdney Trunk, Section 1		408 26
„ Dewdney Trunk, Section 2		5,674 41
„ Dewdney Trunk, Section 3		3,822 81
„ Dewdney Trunk, Section 4		1,244 22
„ Dewdney Trunk, Section 7		1,029 12
„ Dewdney Trunk, Section 8		5,114 12
„ Dewdney Trunk, Section 9		397 00
„ Dewdney Trunk, Section 10		82 50
„ Gourlay		110 36
„ Hatzic–Dewdney		1,831 15
„ Hatzic Front		981 40

Dewdney District—Continued.

Road—Hatzic Prairie–Farms		$ 2,311 50
„ Hatzic Prairie–Sylvester		400 00
„ Hawkins		90 91
„ Hyde and Becker		197 00
„ Ioco		2,056 21
„ Johnston		560 35
„ Jones		72 00
„ Macaulay		450 54
„ Maillardville		1,621 57
„ Malcolm		335 50
„ Matsqui Dyke		33 75
„ Mission–Stave Lake		75 50
„ Mission Townsite		4,491 83
„ McDonald		72 00
„ McIntyre		135 75
„ McKenney Creek		2 60
„ McNeill–Rennie–Campbell		574 48
„ Newton		108 15
„ Nicomen Island Trunk		2,004 40
„ North Nicomen		149 25
„ Pickles		264 93
„ River Road (south)		73 50
„ Ruskin–Stave Falls		675 15
„ Shook and McEwen		351 81
„ Silverdale		1,773 02
„ Smith		95 00
„ Sterling and Morrison		449 65
„ Suicide Creek		200 00
„ Sunnyside		125 00
„ Thompson		284 50
„ Tremblay Island		387 65
„ Tupper–Davis		49 05
„ Upper Pitt Valley		236 75
„ Whonnock Front		1,598 32
Trail—Gerle		83 43
Compensation, T. Cutler's team		500 00
Plant and tools		2,740 67
Material		3,765 68
Camp equipment		18 45
Supervision—General Foreman	$2,497 95	
„ Office	869 15	
„ Auto	654 29	
		4,021 39
Total		$ 55,007 82

Esquimalt District.

Road—Admiral's		$ 1,488 14
„ Albert Head		101 75
„ Arden, Jr.		100 00
„ Arden, Sr.		63 75
„ Battersby		75 05
„ Beattie–Johnson		451 92
„ Belmont		100 00
„ Brown's		75 00
„ Burnside		98 25

Esquimalt District—Continued.

Road—Calvert's	$	20 90
„ Colwood		1,317 82
„ Craigflower		195 63
„ Deakin's		99 44
„ Deloume		81 78
„ Duke's		35 50
„ East San Juan		88 19
„ East Sooke		804 69
„ Finlayson Arm		127 50
„ Fisher's		51 25
„ Glintz		51 00
„ Goldstream		1,371 40
„ Grant's		27 86
„ Hart's		137 08
„ Happy Valley		2,362 53
„ Helmcken		228 68
„ Island–Port Renfrew		64 13
„ John Creek		6 38
„ Jordan River		2,137 52
„ Kemp		4 25
„ LaBonne's		25 00
„ Lagoon		88 31
„ Latoria		100 00
„ Metchosin		877 17
„ Metchosin Cross		195 68
„ Milne's		36 75
„ Mill		50 00
„ Millstream		302 21
„ Millstream Lake		132 00
„ Millstream–Pike Lake		53 75
„ Munn's		4 25
„ McKenzie		338 00
„ Neild's		238 75
„ Otter Point		625 98
„ Phillips		67 39
„ Pike Lake		54 00
„ Ploughwright's		96 51
„ Porrier's		53 88
„ Quarantine		476 90
„ Robinson's		15 50
„ Rocky Point		732 83
„ Ross–Durrance		864 12
„ San Juan (east)		452 38
„ San Juan (west)		451 34
„ Sawyer		472 79
„ Shirley		547 88
„ Sooke		4,135 69
„ Sooke River		489 37
„ Station		105 28
„ Stark's		63 55
„ Summit		311 25
„ Sylvester		8 50
„ Taylor		60 40
„ Thetis		98 25
„ Vancouver Island Trunk		4,602 53
„ Victoria–Campbell River		861 82

Esquimalt District—Continued.

Road—Wharf		$ 3 00
„ Wilson's		50 00
„ Wright's		36 50
„ Young Lake		13 00
„ General roads		10 70
Street—Maple Avenue		107 01
Plant and tools		1,615 41
Camp equipment		470 44
Material		392 41
Supervision—General Foreman	$1,417 60	
„ Office	1,114 94	
„ Auto	1,887 01	
		4,419 55
Total		$ 36,975 42

Fernie District.

Road—Baynes–Dorr	$ 570 80
„ Baynes–Elko Bridge	117 00
„ Baynes–Flagstone	1,846 25
„ Beard's	43 85
„ Bechtel	293 70
„ Bridge's Settlement	104 50
„ Bull River (north)	300 00
„ Bull River (south)	1,469 66
„ Coal Creek	121 50
„ Cokato Settlement	773 49
„ Douglas Settlement	22 86
„ Elk Valley	920 50
„ Elko–Baynes	5 55
„ Elko–Dorr	1,600 05
„ Elko–Jaffray	2,109 79
„ Elko–Roosville	176 40
„ Elko–South Forks	251 25
„ Elko–Waldo	1,024 59
„ Fernie Cemetery	39 00
„ Fernie–Coal Creek	797 75
„ Fernie Dairy	689 64
„ Fernie–Hosmer	3,126 73
„ Fernie–Lizard Creek	164 75
„ Fernie–Morrissey	1,497 69
„ Flagstone–Gateway	1,477 39
„ Flagstone–Newgate	76 15
„ Flathead Valley	42 00
„ Fort Steele–Bull River	153 37
„ Fort Steele–Columbia	1,318 25
„ Fort Steele–Wasa	988 91
„ Jaffray–Wardner	1,329 25
„ Michel–Crowsnest	4,299 64
„ Michel–Hosmer	2,369 33
„ Morrissey–Elko	606 40
„ McBains Lake	140 00
„ McGuire's	467 28
„ Waldo–Flagstone	2,001 65
„ Waldo–Wardner	411 00
„ Wardner–Bull River	2,975 25

Fernie District—Continued.

Road—Wardner–Columbia		$ 55 35
„ Wardner–Crowsnest		137 60
„ Wardner–Gateway		55 75
„ Wasa–Canal Flats		235 32
Street—Elko		128 25
„ Fort Steele		751 33
„ Jaffray		11 14
„ Michel		30 00
„ West Fernie		162 25
Plant and tools		1,017 34
Camp equipment		946 80
Material		249 80
Supervision—General Foreman	$2,501 85	
„ Office	1,169 19	
„ Auto	1,263 68	
		4,934 72
Total		$ 45,438 82

Fort George District.

Road—Aleza Lake–Newlands	$ 155 23
„ Bevier	1,073 34
„ Blackwater–Endako	28 68
„ Braeside	763 75
„ Cache Creek	51 00
„ Campbell	70 63
„ Campbell–Hulatt	1,699 84
„ Chilko Settlement	516 07
„ Cluculz Lake	95 00
„ Crescent Lake	918 15
„ Dewey (south)	148 10
„ Deykin	2,851 46
„ Dome Creek	85 50
„ Dunster–Rausch Valley	57 00
„ Engen	572 85
„ Engen (north)	315 37
„ Finlayson	267 00
„ Fort George–Blackwater	910 66
„ Fort George–Chief Lake	1,252 84
„ Fort George–Isle de Pierre	1,385 66
„ Fort George–Quesnel	343 75
„ Fort George–Stony Creek	146 50
„ Fort George–Summit Lake	390 50
„ Fort George–Willow River	332 16
„ Foreman's	189 06
„ Fort Fraser Ferry	15 30
„ Fort Fraser–Rorison	396 43
„ Fort Fraser Settlement (east)	103 25
„ Fort Fraser–Stella	2,188 97
„ Francois Lake Settlement	691 67
„ Giscome Portage–Summit Lake	1,282 01
„ Giscome (south)	281 00
„ Greer Valley	1,214 02
„ Henderson	935 00
„ Henningville–Canoe River	1,326 13
„ Hulatt (north)	50 54

Fort George District—Continued.

Road—Hulatt (south)	$	613 00
„ Jones		139 75
„ Lampitt		833 77
„ Longworth (south)		150 00
„ Loos		251 23
„ Mapes Cut-off		1,005 85
„ Maunder's		97 38
„ Milne's Landing		41 62
„ Mud River Valley (south)		2,684 01
„ McBride–Cariboo		529 25
„ McBride–Dunster		959 94
„ McBride (east)		2,533 63
„ McBride (north)		439 25
„ Necoslie Settlement		678 65
„ Ness Lake		767 38
„ Nichol–Bednesti		281 51
„ Nithi River		655 55
„ Pine River, Peace River		414 75
„ R.A., No. 9, Peace River		448 37
„ R.A., No. 11, Peace River		3,593 75
„ R.A., No. 13, Peace River		281 11
„ R.A., No. 16, Peace River		600 61
„ R.A., No. 18, Peace River		27 87
„ R.A., No. 19, Peace River		258 24
„ R.A., No. 22, Peace River		128 12
„ R.A., No. 30, Peace River		148 50
„ R.A., No. 32, Peace River		115 00
„ R.A., No. 50, Peace River		1,224 87
„ R.A., No. 77, Peace River		1,364 66
„ R.A., No. 80, Peace River		51 62
„ R.A., No. 208, Peace River		29 00
„ Red Rock		198 50
„ Schaefer		533 76
„ Smedley		238 32
„ Sob Lake Settlement		200 00
„ Stuart Ferry		241 32
„ Taylor		180 52
„ Taylor Flats, Peace River		350 86
„ Vanderhoof (east)		1,076 05
„ Vanderhoof–Noonla		134 60
„ Vanderhoof–Sackner		290 29
„ Vanderhoof (south)		356 64
„ Vanderhoof–Stuart Lake		5,035 53
„ Vanderhoof–Sturgeon Point		2,632 78
„ West Lake		34 00
„ Williams		154 36
„ Willow River		1,651 26
„ Willow River–Giscome		892 50
„ General roads		24 98
Trail—Fort St. James–Manson Creek		719 64
Street—Fort George		377 50
„ McBride		676 84
Plant and tools		5,896 97
Camp equipment		3,327 27
Material on hand		16 50
Powder-house		351 26

Fort George District—Continued.

Stable, wintering horses		$ 4,744 95
Barn, Vanderhoof		4,637 10
Supervision—General Foreman	$3,347 33	
„ General Foreman	2,293 40	
„ Office	1,102 94	
„ Auto	1,045 98	
		7,789 65
Total		$ 87,216 61
Expenditure	$89,756 61	
Transferred to Bridges	2,540 00	
Total	$87,216 61	

Grand Forks District.

Road—Bear Creek–Pass Creek		$ 919 64
„ Cascade–Fife		144 24
„ Cascade–Laurier		153 79
„ Cascade–Paulson		793 12
„ Christina Lake (west)		93 50
„ Deep Creek–Boundary-line		660 09
„ Deep Creek–Pass Creek		63 75
„ English Cove–Head of Lake		212 00
„ Fife–Christina Lake		255 00
„ Grand Forks–Carson (north)		379 49
„ Grand Forks–Carson (south)		694 35
„ Grand Forks–Cascade (north)		1,879 75
„ Grand Forks–Cascade (south)		175 86
„ Grand Forks–Eholt		21 25
„ Grand Forks–Franklyn		5,080 73
„ Grand Forks–Hardy Mountain		391 74
„ Grand Forks–Pass Creek		2,740 75
„ Grand Forks–Summit City		3,184 10
„ Moody Creek–Cascade		138 75
„ Morrissey Creek (east)		176 50
„ Morrissey Creek (west)		53 12
„ Norway Mountain–Paulson		425 00
„ Pass Creek–Rock Candy		319 24
„ Phoenix–Greenwood (north)		98 24
„ Phoenix–Greenwood (south)		8 50
„ Subdivision Lot 534		184 77
„ Subdivision Lot 700		99 50
„ Summit City–Phoenix		416 03
„ Sutherland Creek–Fife		670 22
Plant and tools		639 54
Camp equipment		89 80
Supervision—General Foreman	$2,265 95	
„ Office	36 91	
„ Auto	498 47	
		2,801 33
Total		$ 23,963 69

Greenwood District.

Road—Anaconda–No. 7 Mine		$ 149 00
„ Baker Creek		269 06
„ Beaver Creek		2,335 00
„ Beaverdale Station		513 90
„ Boundary Creek		167 38
„ Bridesville–Molson		187 96
„ Camp McKinney–McLean		43 75
„ Camp McKinney–Rock Creek		144 50
„ Camp McKinney–Sidley		376 75
„ Carmi–Penticton		42 50
„ Caron		416 39
„ Deadwood–Copper Camp		180 75
„ Eholt–Moore		209 75
„ Eholt–North Fork		374 75
„ Eholt–Summit		1,067 50
„ Fillmore		208 25
„ Fish Lake		20 00
„ Greenwood–Eholt		838 75
„ Greenwood–Midway		1,462 75
„ Greenwood–Phoenix		562 25
„ Hartley–Phoenix		96 50
„ Ingram Mountain		288 53
„ Kerr Creek		519 10
„ Kettle River (East Fork)		156 25
„ Kettle River (Main)		1,874 09
„ Kettle River (West Fork)		1,387 90
„ Lett's Sawmill		199 88
„ Long Lake–Jewell Mine		279 75
„ Lynn Creek		297 00
„ Meyers Creek		202 63
„ Midway–Rock Creek		1,794 48
„ McCarren Creek		564 00
„ Nicholson Creek		879 66
„ Rock Creek–Myncaster		469 45
„ Rock Creek–9-Mile		2,373 51
„ Rock Mountain		342 13
„ Rock Mountain–Bridesville		610 61
„ Rock Mountain–Myncaster		145 38
„ Sally Mine		1,564 70
„ Sidley Mountain		478 25
„ Twin Creek		97 50
Trail—Boundary Creek		105 00
Plant and tools		197 45
Tool-shed, Rock Creek		500 57
Supervision—General Foreman	$2,424 20	
„ Office	55 23	
„ Auto	883 79	
		3,363 22
Total		$ 28,358 48

Islands District.

Gabriola Island—		
Road—Centre		$ 346 47
„ Cross		101 88
„ East		361 63
„ Eastholm		49 87

Islands District—Continued.

Road—Main	$	520 37
„ Mill		116 00
„ School Cross		17 00
„ Taylor		207 01
„ Wharf		28 63
„ General roads		173 76
Galiano Island (North)—		
Road—Cook's		58 76
„ Main		480 60
„ Retreat Cove		398 77
Galiano Island (South)—		
Road—Bluff		314 78
„ Burril		193 12
„ East		55 25
„ Gardner		27 30
„ Main		39 17
„ Montague		174 72
„ General roads		62 51
Mayne Island—		
Road—Gallagher		28 75
„ Horton Bay		135 00
„ Main		362 13
„ Neill		36 00
„ Point Comfort		192 39
„ Village Bay		136 26
North Saanich—		
Road—All Bay		203 13
„ Birch		735 52
„ Bradley-Dyne		13 75
„ Breed's Cross		29 75
„ Centre		115 64
„ Chalet		11 50
„ Downey		46 26
„ East		1,461 34
„ Horth's Cross		98 48
„ Madrona		46 49
„ Marine Drive		49 36
„ Meadlands		785 62
„ School Cross		160 01
„ West		842 26
Street—Sidney		1,191 03
North Pender Island—		
Road—Barrett		50 00
„ Bedwell		12 75
„ Clam Bay		263 95
„ Corbet		73 15
„ Hooson's		115 53
„ Hope Bay		1,137 06
„ James Point		175 00
„ Port Washington		8 50
„ Razor Point		25 00
„ South Otter Bay		693 16
North Saltspring Island—		
Road—Beddis		302 70
„ Canal		183 25

Islands District—Continued.

Road—Cranberry		$ 565 80
„ Divide		72 65
„ Dodd's		13 95
„ Fernwood		12 00
„ Fulford Harbour		4 75
„ Ganges (lower)		274 69
„ Ganges School		16 33
„ Ganges (upper)		658 81
„ Hereford Avenue		35 33
„ Mansell		82 56
„ North End		670 00
„ Pottinger		18 00
„ Rainbow		28 05
„ Roman		55 00
„ Stark		137 50
„ Tripp's		150 00
„ Vesuvius		346 12
„ Walker's Hook		231 49
„ Walters		4 99
„ Wilkinson		533 83
„ General roads		341 25
Saturna Island—		
Road—Crossingham		80 62
„ Deep Bay		1,275 56
„ Main		207 25
South Pender Island—		
Road—Boulder		135 50
„ Browning's		82 25
„ Church		30 00
„ Spalding		508 33
„ Wharf		36 00
South Saltspring Island—		
Road—Beaver Point		974 53
„ Bryant's		268 77
„ Burgoyne Bay		940 06
„ Cushion Lake		151 75
„ Isabella Point		300 63
„ Reynold's		109 50
„ Smith's		495 81
Thetis Island—		
Road—Clam Bay		137 56
„ Main		276 68
„ Nixon's		137 13
„ Wharf		122 64
„ General roads		12 75
Plant and tools		756 77
Camp equipment		22 98
Material		907 82
Supervision—General Foreman	$1,445 04	
„ Office	880 10	
„ Auto	670 26	
		2,995 40
Total		$ 28,667 71

Kamloops District.

Road—Adams Lake	$	1,010 31
„ Armour		57 00
„ Barriere River		568 90
„ Beaton–Fish Lake		269 58
„ Birch Island		200 00
„ Blind Bay–Eagle Bay		222 89
„ Bulman–Fraser–Palmer		349 93
„ Buse Meadows		218 26
„ Campbell Creek		420 30
„ Campbell Meadows		2,325 29
„ Celista		463 88
„ Chase Creek		419 99
„ Chase–Kault–Salmon Arm		5,512 00
„ Cherry Creek Station		100 00
„ China Valley		100 00
„ Clearwater		150 00
„ Coal Creek		211 00
„ Coal Hill–Sugar Loaf		300 00
„ Copper Creek		298 33
„ Creamery–Palmer's Corner		450 00
„ Douglas Lake–Grande Prairie		320 89
„ Ducks–Monte Creek		2,434 95
„ Ducks Range		717 00
„ Edith Lake		161 50
„ Ferguson–Hazlehurst		1,000 00
„ Fraser's Claim		250 00
„ Fruitlands		107 53
„ Harpers Camp		339 11
„ Harper Valley		300 00
„ Heffley Station		300 00
„ Jackson		50 00
„ Kamloops–Chase		2,022 02
„ Kamloops Junction		50 00
„ Kamloops–Nicola		2,907 80
„ Kamloops–Savona		3,058 69
„ Kamloops–Shuswap (north)		1,480 35
„ Kamloops–Tranquille–Criss Creek		1,907 13
„ Knouff Lake		100 00
„ Lac du Bois		99 94
„ Long Lake		275 00
„ Louis Creek		3,045 52
„ Mamit Lake		200 00
„ Martin's Prairie		590 75
„ Moberly–Tappen		100 00
„ North Thompson (east)		5,192 87
„ North Thompson (west)		6,641 24
„ Notch Hill–Blind Bay–Greer		1,311 00
„ Notch Hill–Railway Crossing		252 27
„ Notch Hill–Sorrento Wharf		50 00
„ Notch Hill–Tappen		525 74
„ Notch Hill–West Squilax		185 29
„ Oxley Valley		280 00
„ Paxton Valley		250 65
„ Peterson–Betts		100 00
„ Pritchard Bridge		150 00
„ Reserve Creek		447 00

Kamloops District—Continued.

Road—Robbin Range–Canadian Northern Railway		$ 2,770 38
„ Rose Hill Fill		212 00
„ Rose Hill (new)		1,296 87
„ Rose Hill (old)		969 00
„ Salmon Arm Municipality		1,406 88
„ Salmon Arm Trunk		116 00
„ Schaffer		100 00
„ Shuswap–Turtle Valley		200 00
„ Squilax–Anglemont		4,876 78
„ Squilax–Turtle Valley		250 00
„ Strawberry Heights		2,390 00
„ Sullivan Valley		100 00
„ Sullivan Valley–Vinsulla		49 00
„ Tappen–Carlin		436 40
„ Todd Hill–Grande Prairie		1,940 26
„ White Lake		197 47
„ General roads		185 49
Street—Chase		500 00
Plant and tools		3,412 22
Camp equipment		1,450 61
Stable		146 63
Supervision—General Foreman	$2,353 10	
„ Office	808 10	
„ Auto	1,205 16	
		4,366 36
Total		$ 78,224 25

Kaslo District.

Road—Ainsworth (north)	$ 87 75
„ Ainsworth (south)	733 67
„ Alice	178 90
„ Aralu	9 00
„ Argenta	46 00
„ Argenta–Bubner	5 75
„ Arrow Creek	51 75
„ Beach	24 75
„ Bluebell	79 25
„ Boswell–Kuskanook	1,640 64
„ Boswell–LaFrance	74 00
„ Brown	27 00
„ Canning	49 50
„ Canyon–Porthill	1,346 25
„ Coffee Creek	53 00
„ Coffee Creek (North Fork)	43 00
„ Corn Creek	1,003 10
„ Cory	637 11
„ Crawford Creek	267 25
„ Creston–Erickson	4,944 89
„ Creston–Goatfell	2,446 05
„ Creston–Goat River	14 25
„ Creston–Kuskanook	906 65
„ Creston–Lister	248 65
„ Creston–Riverbottom	27 00
„ Creston–Summit	864 15
„ Duncan River (west)	321 00
„ Elsie Holmes	567 25

Kaslo District—Continued.

Road—Extension	$	9 00
„ Ferguson		1,695 87
„ Ferguson (north)		23 25
„ Gardner		72 00
„ Grey–LaFrance		197 00
„ Hall Creek		283 00
„ Haskins (east)		83 25
„ Hood		63 50
„ Hope		8 50
„ Houston		56 50
„ Howser–Argenta		1,357 33
„ Howser Lake (east)		31 50
„ Howser Station		213 75
„ Kaslo–Ainsworth		4,013 43
„ Kaslo Creek (South Fork)		1,464 62
„ Kaslo (north)		442 87
„ Kaslo (south)		36 00
„ Kaslo (west)		46 75
„ Kaslo–Zwicky		599 04
„ Koehle's		9 00
„ Lardeau River (east)		40 50
„ Lardeau River (west)		136 50
„ Leveque		196 50
„ Leviathan		27 00
„ Lindsay		301 39
„ Little		38 75
„ Long		57 00
„ Lynchville		429 46
„ Meadow Creek		145 00
„ McIntyre		36 12
„ McMurtrie		68 62
„ Nettie L.		101 25
„ Old Gold		6 75
„ Peters		57 03
„ Pilot Bay		81 00
„ Poplar		332 85
„ Princess Creek		52 25
„ Queen's Bay		240 36
„ Queen's Bay–Balfour		179 24
„ Samuelson		36 00
„ Silver Cup		76 75
„ Simmons		18 00
„ Spokane		39 75
„ St. Margaret's		11 25
„ Summit		58 50
„ Taugye		11 25
„ Tariff		9 25
„ Trout Lake		1,128 63
„ Utica		643 50
„ Wadd's		278 13
„ Walker's		58 50
„ Whitewater		74 25
„ Wigan		679 68
„ Wilmot		485 05
„ Winslow		41 25
„ Woodberry (North Fork)		188 00

Kaslo District—Continued.

Trail—Beaver		$ 58 50
„ Blue Ridge		24 00
„ Canadian		9 00
„ Canyon Creek		45 00
„ Cascade Creek		162 00
„ Copper Creek		48 75
„ Corn Creek		28 75
„ Dismuth		27 00
„ Elsmere		6 75
„ Emerald Hill		24 75
„ Ethel		10 50
„ Eureka		21 00
„ Fourth of July		40 50
„ Gainor Creek		18 75
„ Gold Gulch		9 00
„ Great Northern		36 75
„ Hamill Creek		40 00
„ Jackson		43 50
„ Kaslo (North Fork)		83 25
„ Keen's		15 75
„ LaFrance		99 00
„ Lardeau River (North-east)		39 00
„ Lardeau River (South-east)		40 50
„ Lockhart Creek		100 00
„ Lucky Boy		27 00
„ Silver Glance		19 50
„ Spring Creek		18 00
„ Tenderfoot		63 00
„ Triune		10 50
„ Trout Lake		23 25
„ Wellington		19 50
Street—Creston		1,205 43
„ Kaslo		139 45
„ Lardeau		9 00
„ Trout Lake		52 75
Plant and tools		1,112 97
Tool-house, Trout Lake		85 25
Camp Equipment		170 65
Material		285 48
Supervision—General Foreman	$3,070 40	
„ Office	31 47	
		3,101 87
Total		$ 41,144 75

Lillooet District.

Road—Beaver Dam–Alberta Lake		$ 59 90
„ Big Bar		919 15
„ Big Bar–Big Bar Mountain		769 31
„ Big Bar–Empire Valley		277 62
„ Big Bar Ferry		92 00
„ Big Bar–Grinder–Kostering		170 70
„ Big Bar Lake, No. 7		223 89
„ Big Bar Lake–59-Mile House		147 00
„ Big Bar Mountain		198 75
„ Big Creek		1,236 70
„ Big Creek–Chilcotin		76 00

Lillooet District—Continued.

Road—Bonaparte Valley	$	900 47
„ Bridge Creek–Canim Lake		1,385 11
„ Bridge Creek–Horse Lake–Fish Lake		1,123 15
„ Bridge River		2,642 90
„ Bridge River Canyon		63 00
„ Bridge River Ferry		54 00
„ Buffalo–Canim Lake		42 50
„ Canim–Eagle Creek		3 00
„ Canoe Creek–Churn Creek		443 42
„ Cariboo Main		12,852 80
„ Cayoose Creek		167 25
„ Chilcotin Main		2,208 69
„ Churn Creek–Hanceville		1,308 29
„ Clinton–Alkali		1,045 01
„ Clinton–Alkali via Kelly Lake		1,644 03
„ Clinton Station		281 19
„ Cotton		32 75
„ Criss Creek		907 34
„ Deadman Creek		792 00
„ Dowse		165 75
„ Egerton Station		150 00
„ Empire Valley		823 36
„ Exeter Station		282 00
„ Ferry–Bridge River		54 00
„ Fountain Valley		143 12
„ Frog Creek–Copper Creek		214 43
„ Frog Creek–Seven Lakes		214 44
„ Hanceville–Stony Reserve		73 45
„ Hat Creek		860 83
„ Indian Reserve		50 00
„ Jones–Dickey		953 99
„ Lac la Hache Station		150 35
„ Lillooet–Clinton		4,075 31
„ Lillooet–Lytton		3,491 88
„ Lillooet–Seton Lake		699 49
„ Lillooet Station		340 50
„ Marble Canyon		136 80
„ Mound–Loon Lake		311 99
„ Mound–Upper Bonaparte		99 52
„ McKinley–Lac la Hache		100 75
„ McKinley–Hamilton		8 50
„ McKinley–Horsefly		341 46
„ North Bonaparte		590 21
„ North Fork		3,682 56
„ 100-Mile House Station–Canim Lake		1,308 90
„ Raphael–Pigeon–Mason		45 00
„ Riske Creek–Gang Ranch		41 25
„ Scotty Creek		175 00
„ 70-Mile House–Horse Lake		51 00
„ Short Portage		96 25
„ Springhouse–4-Mile Creek		25 75
„ Springhouse–U.S. Meadows		40 00
„ Tatla Lake		42 50
„ Tatlayoko		211 48
„ Tranquille–Criss Creek		5 00
„ Upper Deadman Creek		66 25

Lillooet District—Continued.

Road—Upper Dog Creek		$ 17 00
„ Upper Hat Creek		468 40
„ Watch Lake		99 50
„ Woods Bay–High Bar		6,975 13
„ General roads		614 98
Trail—Canim Lake–McNeil–Mayhood		1,817 70
„ Eagle Creek		355 25
„ Gunn Creek		394 35
„ McGillivray Creek		90 00
„ North Fork		68 00
„ Pavilion Ferry		64 00
„ Pavilion–High Bar		76 00
„ Watson Bar Creek		24 00
„ West of Fraser		510 25
Street—Clinton		116 65
„ Lillooet		32 75
Plant and tools		1,414 12
Camp equipment		569 12
Material		178 75
Supervision—General Foreman	$2,465 85	
„ Office	504 39	
„ Auto	712 17	
		3,682 41
Total		$ 69,759 35
Expenditure	$71,037 92	
Transferred to Bridges	1,278 57	
Total	69,759 35	

Nanaimo District.

Road—Brechin		$ 403 88
„ Chesterlee		43 02
„ Departure Bay		601 65
„ Extension		162 00
„ Five Acres		1,905 16
„ Frew's		62 50
„ Gordon's		22 75
„ Harewood		595 27
„ Newcastle Townsite		235 00
„ Old Victoria		289 20
„ Raine's		45 50
„ South Wellington		439 45
„ Victoria–Campbell River		4,068 23
„ Wellington		90 27
„ York		64 00
Street—Machleary		51 51
„ Nichol		248 30
„ Pine		5 00
„ Robin		48 62
„ Strickland		35 25
Clearing out Cat Stream		498 68
Plant and tools		20 66

Nanaimo District—Continued.

Supervision—Assistant Engineer	$ 190,00	
„ Office	75 15	
„ Auto	66 85	
		$ 332 00
Total		$ 10,267 90
By refund, Cat Stream		500 00
Total		$ 9,767 90

Nelson District.

Road—Golf Course	$ 56 25
Street—Fairview	3,332 01
„ South Nelson	507 88
Plant and tools	48 00
Supervision—General Foreman	180 00
Total	$ 4,124 14

Newcastle District.

Road—Adshead	$ 258 19
„ Ainscough	121 00
„ Barnes	117 99
„ Beck's	1,596 10
„ Bennie's	1,031 63
„ Benson's	54 00
„ Brenton's	286 25
„ Brown's	74 76
„ Carmichael	29 41
„ Christie's	39 50
„ Code's	151 93
„ Crane's	54 50
„ Davis	27 50
„ East Wellington	604 66
„ Extension	1,124 26
„ Fiddick's	48 00
„ Frame's	40 25
„ Gifford's	45 00
„ Graham	48 00
„ Greenaway	48 75
„ Haslam	435 39
„ Heemer's	416 50
„ Holden–Corso	1,207 27
„ Hollands	56 50
„ Jingle Pot	634 66
„ Juriet's	48 25
„ Lake	334 16
„ Lockner's	775 53
„ Meredith	50 00
„ Michael and Doole	394 77
„ Michael and Hill	9 60
„ Morden	774 38
„ McLean	66 25
„ Northfield School	42 01
„ Old South Wellington	354 15
„ Old Victoria	114 75

Newcastle District—Continued.

Road—Patricia		$ 232 00
„ Quesnell's		193 25
„ Richardson's		50 00
„ Rossville		54 00
„ Saltair		51 88
„ Scannell's		150 00
„ South Forks		551 35
„ South Oyster School		2 40
„ South Wellington		937 03
„ Street's		182 00
„ Swan's		44 00
„ Tiesus		116 00
„ Thomas		1,067 25
„ Timberlands		264 18
„ Victoria-Campbell River		10,400 79
„ Waterloo		1,309 50
„ Watt's		105 25
„ Weaver's		119 70
„ Westwood's		70 00
„ White's		137 50
„ Wilgress		166 75
„ Woodbanks		60 25
Street—Fourth Avenue		202 75
„ Third Avenue		117 10
Plant and tools		632 59
Camp equipment		156 36
Supervision—Assistant Engineer	$1,188 20	
„ Office	699 63	
„ Auto	343 85	
		2,231 68
Total		$ 31,121 41

North Okanagan District.

Road—Albas	$ 5 25
„ Alber's Range	12 75
„ Baker-Hogg	101 25
„ Bartlett's	3 94
„ Bear Valley	177 63
„ Bluenose and branches	139 13
„ Boleau Creek	297 75
„ Brash-Allen	50 00
„ Byers	160 62
„ Cameron Point	721 25
„ Carlin Orchards	9 39
„ Coell-Jones	99 87
„ Commonage	734 43
„ Creighton Valley	455 49
„ Deep Creek and branches	1,375 67
„ Deep Creek-Salmon Arm	392 21
„ Dure Meadows	28 50
„ Eastside	173 50
„ East Vernon Subdivision	1,261 25
„ Enderby-Mara	2,327 45
„ Ewing's	77 50
„ Fortune	1,420 23

North Okanagan District—Continued.

Road—Fowler–Willett	$	694 27
„ Glenemma–Armstrong		195 00
„ Glenmary		343 50
„ Grandview		626 20
„ Grandview Bench		526 45
„ Grindrod		1,703 33
„ Grindrod (west side)		98 64
„ Hadow		309 89
„ Haines–Wright		99 66
„ Headgate and branches		201 89
„ Inch–Logan		250 90
„ Kamloops		4,544 40
„ Keddleston (east)		821 86
„ Kelowna		2,407 29
„ L. and A. Subdivision		884 28
„ Larch Creek		439 88
„ Long Lake Drive		460 48
„ Loon Lake		323 58
„ Lumby Village		72 50
„ Mabel Lake–Enderby		1,887 04
„ Mabel Lake–Lumby		1,400 86
„ Mallory		5 25
„ Mara Lake		360 66
„ Mill's		27 00
„ Miska		125 38
„ Monashee		5,195 51
„ Morgan's		140 87
„ Mud Lake		85 65
„ McKay's		21 00
„ New Fortune		1,589 15
„ North Fork		576 17
„ Okanagan Bench		141 25
„ Okanagan Landing		386 87
„ Old Fortune		35 75
„ Old Spallumcheen		398 50
„ Oyama Fruit Lots		328 05
„ Pleasant Valley		2,020 11
„ Pyott		639 38
„ Richlands		128 90
„ Riverside		186 88
„ Rollings Lake		33 00
„ Salmon Arm		1,309 87
„ Salmon River–Enderby		95 75
„ Salmon River Valley		1,370 61
„ Salt		49 50
„ Seymour Arm		384 36
„ Spallumcheen Municipality		3,203 97
„ Squaw Valley		277 62
„ Sugar Lake		371 50
„ Trinity Valley		337 81
„ Tronson		115 30
„ Vernon–Enderby		325 63
„ Vernon–Kamloops		1,089 21
„ Warren Creek		255 75
„ Westside		1,675 57
„ Whitevale Subdivision		265 13

North Okanagan District—Continued.

Road—Wolfgang		$ 799 01
„ Woods Lake Fruit Lots		877 56
„ General roads		1,520 10
Street—Shuswap Avenue (south)		12 50
Plant and tools		3,019 52
Supervision—Assistant Engineer	$2,314 00	
„ Office	1,744 86	
„ Auto	934 78	
		4,993 64
Total		$ 63,092 20
Expenditure	$63,919 60	
Less transferred to Bridges	827 40	
Total	$63,092 20	

New Westminster District.

Road—Approach to New Westminster Bridge	$ 182 43
„ D.L. 172	3,885 03
Total	$ 4,067 46

North Vancouver District.

Road—Bargain Harbour	$ 30 27
„ Billington	4 25
„ Bowen Island Trunk	351 76
„ Bridgeman	378 15
„ Carr's	16 50
„ Carter's	11 59
„ Cemetery	115 00
„ Chamberlin	148 75
„ Chaster	163 08
„ Cowan	50 58
„ Crowder	25 00
„ Dermody Ferry	21 68
„ Doriston	25 50
„ Eagle Cliff	4 25
„ Gambier Island	85 54
„ Gibson–Seechelt	2,993 34
„ Gibson Townsite	20 25
„ Gower	380 20
„ Grafton	129 00
„ Green Lake	10 00
„ Halfmoon Bay	107 89
„ Hanbury	59 00
„ Henery	157 25
„ Judd	25 00
„ Kayme's	54 19
„ Kearton	50 00
„ Kranthaw's Townsite	20 00
„ Langlois	19 83
„ Lockyer	221 25
„ Lower	246 00
„ Mason	390 15
„ Millar	40 70
„ Mintie	209 25
„ Mitchell	1,590 88

North Vancouver District—Continued.

Road—Moodyville		$ 164 54
„ North		196 50
„ North-west Bay		478 39
„ Old Cariboo		313 83
„ Orange		101 60
„ Owl Creek		366 70
„ Paradise Valley		21 05
„ Pemberton Meadows		1,868 48
„ Pemberton Portage		1,677 80
„ Porpoise Bay		52 92
„ Pratt		169 75
„ Reid		88 49
„ Roberts Creek		25 00
„ Saginaw Harbour		7 75
„ Salmon Arm		11 00
„ Scarboro–Eagle Cliff		10 63
„ Selma Park		54 00
„ Shaw		10 50
„ Skookumchuck		157 87
„ Smith's		9 50
„ Squamish–Pemberton		295 00
„ Squamish Valley		2,995 35
„ Station		141 25
„ Upper Squamish		363 63
„ Wharf–Halfmoon Bay		1,659 58
„ Wilson Creek		28 43
Trail—Saginaw Lake		115 87
„ Woods		125 00
Street—Beach Avenue (east)		53 50
„ Beach Avenue (west)		31 25
„ Beach Drive		445 63
„ Squamish		25 52
Plant and tools		432 19
Material		27 19
Tool-shed, Squamish		78 12
Supervision—Assistant Engineer	$749 30	
„ Office	127 71	
„ Motor-cycle	60 97	
„ Auto	161 30	
		1,099 28
Total		$ 22,088 86

Omineca District.

Road—Adams Settlement	$ 496 50
„ Ailport–McDonald	99 50
„ Aitken Settlement	23 75
„ Aldermere–Pleasant Valley	5,307 13
„ Ashman Coal	135 12
„ Barrett Station	297 25
„ Bedore Settlement	554 62
„ Bickle–McDonald	833 43
„ Bourgeon Settlement	125 00
„ Bruce Settlement	25 00
„ Carrol Settlement	270 00
„ Chicken Lake (east)	165 00
„ Colley Mountain	2,602 40

Omineca District—Continued.

Road—Cronin	$	25 00
„ Delta Copper Company		150 00
„ Driftwood Creek		643 75
„ Eakin Settlement		209 25
„ East Round Lake		923 25
„ Endako–Francois Lake		296 62
„ Evelyn Station–Hudson Bay Mountain		250 00
„ Forrestdale–Day Lake		500 00
„ Forrestdale Station		334 25
„ Francois Lake Hospital		2,448 15
„ Hamre Settlement		25 00
„ Hazelton–Aldermere		3,296 25
„ Hazelton–Skeena Crossing		1,171 70
„ Heal–Norris		620 00
„ Hines Settlement		768 65
„ Hubert–Babine–Dome Mountain		1,235 63
„ Hudson Bay Mountain		75 00
„ Hunter Basin		190 00
„ Hutter Settlement		400 00
„ Keefe's Landing–Ootsa Lake		2,016 23
„ Kennedy Settlement		150 00
„ Kispiox		4,199 27
„ Kispiox–Swan Settlement		120 00
„ Kitsequekla Valley		240 00
„ Main Fraser Lake		2,923 01
„ Maney Settlement		65 00
„ Morden Settlement		1,629 25
„ McCabe Settlement		664 75
„ McClure Lake Cut-off		2,191 88
„ McDonald's Landing		407 32
„ McDonald's Settlement		1,158 50
„ McKilligan Settlement		147 00
„ Neal Settlement		515 00
„ New Hazelton–High Level		1,250 00
„ New Hazelton Station–Main Road		60 00
„ 9-Mile Mountain		3,765 00
„ North Francois Lake		1,456 39
„ North Round Lake		1,258 85
„ Pleasant Valley–Francois Lake		591 15
„ Poplar Park		26 70
„ Rocher Déboulé		370 00
„ Rosenthal		260 00
„ Round Lake		6 35
„ Silver Standard		385 00
„ Silver Standard (lower)		60 38
„ Smithers Bridge–Hudson Bay Mountain		1,088 25
„ Smithers Hospital		125 00
„ South Hazelton–Comeau		310 00
„ South Side of Decker–Palling		162 25
„ Tchesinkut Settlement		153 00
„ Telkwa–Canyon Creek		4,243 10
„ Telkwa Cut-off		1,426 50
„ Telkwa–Howson Creek		765 30
„ Turner Settlement		75 75
„ Uncha Lake		2,108 24
„ Wakefield		144 00

Omineca District—Continued.

Road—West End of Francois Lake–Ootsa Lake		$ 1,580 94
„ West Side of Bulkley (Chicken Lake–Telkwa)		832 88
„ West Side of Bulkley (Moricetown–Chicken Lake)		3,707 53
„ West Side of Skeena (east)		180 00
„ West Side of Skeena (west)		361 50
„ Widen Settlement		332 00
„ York Settlement		296 75
„ General roads		937 00
Trail—Burns Lake–Babine		684 75
„ Colley Mountain		396 00
„ Empire Group		75 00
„ Groundhog		1,000 00
„ Kishkegas		350 00
„ Manson Creek		499 60
„ Owen Lake		100 00
Street—Hazelton		175 25
„ Telkwa		462 00
Plant and tools		1,763 42
Camp equipment		1,142 82
Supervision—Assistant Engineer	$3,266 35	
„ Office	1,889 65	
„ Auto	749 96	
		5,905 96
Total		$ 81,862 02

Prince Rupert District.

Road—Anaham Lake	$ 705 00
„ Bedore	198 50
„ Blue Jacket–Drizzle Lake	365 00
„ Bohlan's	466 25
„ Braun's Island	1,768 20
„ Breckenridge–Copper City	1,968 90
„ Brown's	210 00
„ Canoe Crossing	1,511 08
„ Carlson	217 00
„ Cedarville–Kitwanga	342 30
„ Clayton (north)	221 00
„ Collison Bay–Thunder Inlet	90 00
„ Copper City–Kitimat	2,266 45
„ Corlette	145 00
„ Delkatla–Chown Point	4,433 95
„ Dover–Donald	88 70
„ Fiddler Creek	338 25
„ Fiddler Creek–Doreen Station	126 00
„ Firvale	1,869 40
„ Gold Creek–Usk	1,479 74
„ Graham's	90 50
„ Grant's	10 50
„ Hagensborg	2,928 30
„ Johnston's	205 25
„ Keith's	1,006 75
„ Kitimat	340 24
„ Kitsumgallum Lake Shore	117 00
„ Kitsumgallum Main	1,465 35
„ Kitsumgallum–Terrace	263 24

Prince Rupert District—Continued.

Road—Kitwanga	$	790 50
„ Kitwanga–Kitsequekla		121 50
„ Kundis Island		127 50
„ Lorne Creek		400 00
„ Meanskinisht–Kitwanga		1,455 28
„ Merkley		933 00
„ Minette Bay		153 00
„ Murray		500 00
„ McLeod		641 45
„ McPherson		443 45
„ Naden–Kundis Bay		45 00
„ Naden River		526 25
„ Old Masset–New Masset		32 00
„ Park		13 50
„ Port Clements–Meyer Lake		211 49
„ Saloomt		344 75
„ Sandspit–Copper Bay		221 75
„ Sewell (north)		40 50
„ Sewell–Tasso		40 50
„ Silver Lake		249 75
„ Skidegate–Queen Charlotte City		1,819 96
„ Skidegate–Tlell		2,691 75
„ South-easter		5 00
„ Stonie–Atnarko		431 50
„ Terrace Ferry		89 00
„ Towdistan–Klinaklini		609 50
„ Turner		49 50
„ Usk–Van Arsdol		3,109 03
„ Van Metre–Hale		23 50
„ Viger's		100 00
„ Walker's		47 16
„ West Settlement		121 50
„ Yakoun Trail		103 50
„ Zimachord		295 01
„ General roads		424 41
Trail—Basket Ferry–Copper River		68 70
„ Brunswick Cannery		172 49
„ Cannery		182 20
„ Carr–Whittle		296 84
„ Copper River		684 40
„ Egan's		45 00
„ Gold Creek		2,545 00
„ Honna River		18 00
„ Ikeda–Jedway		77 00
„ Legate Creek		962 71
„ Mayer Lake		27 00
„ Mexican Tom		209 00
„ Oona River		236 00
„ Smith Island		897 31
Street—Bella Coola		251 00
„ Masset		33 75
„ New Masset		148 00
„ Port Essington		1,124 41
„ Port Simpson		2,127 99
„ Terrace		924 25
Sidewalk—Salt Lake (plank walk)		346 25

Prince Rupert District—Continued.

Plant and tools		$ 2,221 87
Camp equipment		1,233 89
Supervision—General Foreman	$2,628 54	
„ Office	86 90	
„ Stable	579 99	
		3,295 43
Total		$ 60,577 83

Revelstoke District.

Road—Arrowhead Mill	$ 10 00
„ Arrowhead (north)	1,702 32
„ Arrow Lake	220 87
„ Beaton–Camborne	1,419 13
„ Beaton–Comaplix	128 25
„ Beaton–Trout Lake	2,207 71
„ Big Bend	4,876 99
„ Bleary's	181 23
„ Carnes Creek	40 43
„ Craigellachie–Malakwa	618 35
„ Craigellachie–Malakwa (north)	175 50
„ Deep Water Landing	162 38
„ Fish River	627 75
„ Fosthall Creek	250 75
„ Galena Bay Logging	159 94
„ Galena Bay (south)	389 50
„ Halcyon	174 00
„ Hall's Landing (north)	578 50
„ Hall's Landing (protection)	96 90
„ Hall's Landing (south)	873 50
„ Hall's Landing Wharf	59 00
„ Hollett's	30 00
„ Lenard's	21 00
„ Lexington Creek	71 25
„ Malakwa–Bowie	304 70
„ Malakwa (local)	831 67
„ Malakwa–Sommerville	485 00
„ Malakwa–Tredget	100 00
„ Malakwa–Ward	108 88
„ Mihaluk	45 00
„ Miller	27 75
„ Montana Slough	479 21
„ Nelson	39 50
„ Nichols	879 49
„ Olson's	245 00
„ Power-house	379 33
„ Revelstoke (east)	3,298 37
„ Revelstoke (local)	350 40
„ Revelstoke–6-Mile (south)	1,346 51
„ Revelstoke (south, via Fourth Street)	3,585 15
„ Revelstoke (south, west of Columbia River)	1,688 76
„ Revelstoke (via Eighth Street)	252 75
„ Revelstoke (via Ninth Street)	196 70
„ Revelstoke (west)	607 66
„ Roberts	249 02
„ Rosebery	26 13
„ Samuelson	410 87

Revelstoke District—Continued.

Road—Sandslide Bridge		$ 126 50
„ Sederberg		33 38
„ Sicamous–Mara		36 00
„ Siltas		215 85
„ Silver Creek		42 88
„ 6-Mile (south)		1,155 78
„ Solsqua–Bowie		49 00
„ Solsqua–Sicamous		168 75
„ Taft–Sicamous		1,859 60
„ Turek		61 00
„ Wigwam		425 76
„ General roads		6 30
Trail—Beatrice		52 50
„ Bernier–Nelson		6 00
„ Big Bend		1,087 00
„ Boyd Creek		18 00
„ Downie Creek		61 75
„ Fish River		106 50
„ Hot Springs		706 95
„ Pool Creek		64 50
„ Sable Creek		90 00
Street—Arrowhead		421 10
„ Boyle Avenue		26 77
Plant and tools		974 22
Camp equipment		43 85
Material		194 22
Tool-house, Hall's Landing		78 00
Supervision—General Foreman	$2,563 57	
„ Office	19 91	
„ Auto	495 67	
		3,079 15
Total		$ 42,204 61

Richmond District.

Road—Marine Drive		$ 3,563 00
„ River		3,116 18
Street—Imperial		2 48
„ Tenth Avenue		1,482 67
Plant and tools		401 11
Supervision—Assistant Engineer	$ 972 85	
„ Office	175 08	
„ Auto	307 38	
		1,455 31
Total		$ 10,020 75
Expenditure	$11,028 75	
Transferred to Road Machinery	1,008 00	
Total	$10,020 75	

Rossland District.

Road—Big Sheep Creek		$ 498 37
„ Columbia–Kootenay		40 50
„ Deer Park		112 50
„ Deschamps (north)		230 00
„ Drake's		72 00

Rossland District—Continued.

Road—Rock Creek		$ 364 25
„ Rossland–Paterson		2,166 32
„ Rossland–Trail		4,244 26
„ Rossland–Trail (old)		197 89
„ Stony Creek		314 00
„ Violin Lake		307 13
„ General roads		71 46
Trail—Sheep Creek		91 00
Plant and tools		297 50
Material		3 35
Supervision—General Foreman	$205 15	
„ Office	86 30	
		291 45
Total		$ 9,301 98

Saanich District.

Road—Burnside		$ 960 98
„ Observatory		1,162 78
„ Ross–Durrance		1,749 40
„ Scott		756 28
Total		$ 4,629 44

Similkameen District.

Road—Allenby	$ 9 50
„ Allen–Dale	14 00
„ Allison–Copper Mountain	80 13
„ Armstrong Ferry	122 75
„ Armstrong–Smith	51 00
„ Camp Rest–Nickel Plate	8 50
„ Cedar Creek	35 00
„ China Creek	39 75
„ Copper Mountain	2,202 27
„ Dalby Meadows	53 00
„ Darcy Mountain	135 50
„ Deer Valley	131 50
„ Dog Lake	14 00
„ Fairview–Keremeos	680 77
„ Fairview–Osoyoos	386 88
„ Fairview–Penticton	5,854 88
„ Fairview–Rock Creek	710 25
„ Fairview–White Lake	201 01
„ Farleigh	22 63
„ 5-Mile	448 95
„ Granite–Coalmont	31 00
„ Granite Creek	224 75
„ Hedley–Princeton	2,773 57
„ Hope–Princeton	96 00
„ Kaleden–Okanagan Falls	156 60
„ Kaleden Townsite	43 75
„ Keremeos–Hedley	1,695 02
„ Keremeos Junction	923 76
„ Keremeos Station	1,758 06
„ Kruger Mountain	309 00
„ Lowe's Subdivision	1,851 57
„ Marron Valley	593 95
„ Myers Flat–Okanagan Falls	272 03

Similkameen District—Continued.

Road—McLean Creek		$ 32 25
„ 1-Mile		479 00
„ Osoyoos Orchards		252 52
„ Osoyoos–Sidley Mountain		343 38
„ Osoyoos–Similkameen		826 80
„ Penticton–Carmi		114 88
„ Penticton Creek		143 00
„ Penticton–Fish Lake		2,836 99
„ Penticton–Summerland		745 67
„ Penticton Trunk		751 00
„ Princeton–Otter Lake		3,261 43
„ Princeton–Stevenson		74 63
„ Princeton–Tulameen		17 00
„ Reed Creek		53 88
„ Richter Mountain		40 00
„ Shingle Creek		224 13
„ Similkameen City–Burr		17 00
„ South Keremeos		592 51
„ South Similkameen		569 64
„ Summers Creek		119 25
„ Tulameen–Summit City		460 95
„ Wild West		192 75
„ Yellow Lake–Sheep Creek		8 50
„ General roads		197 60
Street—Hedley		21 25
„ Princeton		2,574 38
Trail—Hope		126 50
Plant and tools		2,711 94
Camp equipment		3 65
Material		564 01
Supervision—General Foreman	$2,490 50	
„ Office	561 03	
„ Auto	692 56	
		3,744 09
Total		$ 44,031 91

Slocan District.

Road—Arrow Park		$ 149 95
„ Beaver Creek		339 65
„ Benninger's		137 70
„ Bird's–Lanning		266 12
„ Black Prince Mine		202 00
„ Blue Bird		25 00
„ Box Lake Summit		51 50
„ Brook's		214 64
„ Brouse		211 24
„ Brown–Robinson		822 05
„ Burton City		69 34
„ California		99 76
„ Canyon		586 51
„ Cariboo Creek		121 65
„ Columbia River (east)		2,816 71
„ Columbia River (south)		207 01
„ Columbia River (west)		3,681 01
„ Condor		75 00

Slocan District—Continued.

Road—Crescent Bay	$	696 73
„ Deer Park		103 75
„ Deer Park (south)		279 39
„ Dog Creek		101 75
„ Eagle Creek		30 64
„ Edgewood Cemetery		175 00
„ Edgewood–Vernon		715 26
„ Ewing's		441 00
„ Fauquier's (upper)		204 43
„ Fennel Creek		153 50
„ Ferret's		90 13
„ Fire Valley		5 25
„ 4-Mile Creek		2,257 09
„ Goat Creek		120 75
„ Graham Landing		62 73
„ Hamblin's		40 00
„ Harris Creek Fill		1,085 60
„ Harrison's		226 76
„ Jacob's		12 75
„ Jordan's		50 25
„ Langill's		156 71
„ Lightning Peak		42 50
„ Little Slocan River		122 25
„ Martz		80 93
„ Merritt's		4 25
„ Morton's		200 61
„ McCormack		219 75
„ Nakusp–Box Lake		531 43
„ Nakusp (east)		192 00
„ Needles–Fire Valley		73 25
„ New Denver–Rosebery		582 57
„ New Denver–Silverton		1,017 18
„ New Denver–Three Forks		317 13
„ North Fork of Carpenter Creek		4,952 68
„ Ottawa Mine		88 63
„ Passmore		150 25
„ Payne Mine		85 75
„ Perry's Siding		400 25
„ Republic Mine		128 25
„ Reveller		99 95
„ Ruth Mine		70 50
„ Sandon–Cody		1,500 45
„ Sandon–Three Forks		1,402 76
„ Sherwood–Applegrove		100 34
„ Silverton–Red Mountain		700 88
„ Silverton–10-Mile Creek		740 22
„ Slocan River (east)		1,065 10
„ Slocan River (west)		427 00
„ Slocan Star		232 12
„ Springer Creek		806 39
„ Standard Mine		85 50
„ Stephenson's		45 89
„ Trussell's		87 74
„ Van Roi Mine		54 00
„ Walker's		19 00

Slocan District—Continued.

Road—West Demars		$ 99 75
„ Whatshan Lake		61 64
„ General roads		1,219 83
Trail—Anaconda		85 50
„ Broadwater		50 00
„ Chieftain		126 00
„ 8-Mile–10-Mile Creek		11 88
„ Fauquier–Applegrove		45 91
„ Freddie Lee		5 50
„ 4-Mile Creek		378 89
„ Goat Canyon		41 50
„ Goat Mountain		52 25
„ Hampton		225 00
„ Hot Springs		308 59
„ Idaho		95 00
„ Kuskanax		40 75
„ Lemon Creek		304 00
„ Meteor		70 75
„ Millie Mack		96 25
„ Miner Boy		49 89
„ Mountain Creek		38 00
„ Noble Five		11 00
„ Noonday Mine		31 88
„ Port Hope		24 94
„ Washington		42 75
„ Wilson Creek		389 65
„ Wonderful–Queen Bess		17 38
Street—Alexander Avenue		53 00
„ Edgewood		100 00
„ Nakusp		1,202 26
„ New Denver		499 09
„ Sandon		200 60
„ Shakespeare Avenue		285 64
„ Silverton		270 79
Plant and tools		554 85
Material		180 33
Supervision—General Foreman	$2,699 75	
„ Office	116 33	
		2,816 08
Total		$ 43,800 93

South Okanagan District.

Road—Aitkin's		$ 720 82
„ Arawana		144 87
„ Bear Creek		282 75
„ Belgo Diversion		1,224 30
„ Belgo Subdivision		265 24
„ Benvoulin		550 00
„ Bulman		144 00
„ Gellatly–Powers Creek		53 00
„ Glenmore Subdivision		2,472 15
„ Glenrosa Main		66 75
„ Glenrosa Subdivision		310 61
„ Guchigan		577 85
„ Harvey Branch		25 75

South Okanagan District—Continued.

Road—Hawkins–Miller–Dean		$ 30 00
„ Hydraulic Creek		80 17
„ Joe Ritchie		474 17
„ Kelowna–Vernon		2,339 33
„ K.L.O.		1,104 76
„ K.L.O. and Subdivision		736 83
„ Lake Shore		39 00
„ Lewis–Bailey		55 00
„ Meadow Valley and branches		133 50
„ McDougall Creek		162 00
„ Naramata Subdivision		1,560 87
„ Naramata (north)		217 63
„ Oceola		986 54
„ Okanagan Centre Subdivision		1,898 95
„ Peachland–Princeton		72 15
„ Penticton–Naramata		1,140 33
„ Penticton–Summerland		114 75
„ Rutland Subdivision		1,851 41
„ Shingle Creek		288 21
„ S.K.L. Fruit Lots		799 35
„ South Okanagan		481 15
„ Spier's Diversion		1,041 96
„ Summerland–Meadow Valley		364 50
„ Summerland–Peachland		3,791 98
„ Trepanier and branches		16 95
„ Westbank–Kelowna Ferry		820 87
„ Westbank–Peachland		369 75
„ Westbank Subdivision		438 75
„ Westside		1,323 92
„ Wilson's–Woods Lake		650 65
„ Woodlawn Subdivision		67 50
„ Woods Lake Bottom		352 00
„ General roads		3,207 03
Street—Naramata Village		301 75
„ Richter		189 10
Gravel-pit, Kelowna		202 00
Plant and tools		1,617 89
Camp equipment		48 55
Tool-shed, Naramata		155 00
Supervision—Assistant Engineer	$ 24 95	
„ General Foreman	2,606 40	
„ Office	856 65	
„ Auto	631 46	
		4,119 46
Total		$ 40,483 80
Expenditure	$40,397 68	
Add transferred from Bridges	86 12	
Total	$40,483 80	

South Vancouver District.

Road—Hastings–Barnett		$ 915 77
„ Kingsway		608 79
„ River		3 15

South Vancouver District—Continued.

Plant and tools		$ 74 27
Supervision—Assistant Engineer	$1,120 50	
„ Office	108 50	
„ Auto	440 01	
		1,669 01
Total		$ 3,270 99

Trail District.

Road—Athabasca Mine	$ 155 00
„ Bunker Hill	103 62
„ Castlegar Subdivision	93 50
„ Columbia Garden Subdivision	889 75
„ Dundee	118 75
„ East Robson	294 07
„ Emerald Mine	291 25
„ Erie Townsite	60 38
„ Fruitvale–Pend d'Oreille	174 50
„ Fruitvale Subdivision	830 99
„ Granite	2,697 75
„ Granite (upper)	966 66
„ Greenwood	350 47
„ Harrop–Procter	394 39
„ Hudson Bay Cut-off	114 75
„ Kootenay River	8,188 30
„ Lost Creek–Molly Mine	182 25
„ McDaniel's–Pass Creek	274 00
„ Nelson–Balfour	4,673 95
„ Nelson–Waneta	5,336 32
„ Pass Creek	587 25
„ Pend d'Oreille	1,111 99
„ Salmon River	357 37
„ Salmon River–Boundary Lake	54 50
„ Salmo Townsite	113 20
„ Silver King	47 81
„ Slocan River	736 07
„ South Nelson	156 00
„ Trail–Castlegar	5,455 00
„ Trail–Fruitvale	226 87
„ Trail–Fort Shepherd	66 01
„ Trail–Sayward	1,381 30
„ Trail–Waneta	67 75
„ Yellowstone	1,643 37
„ Ymir–Wilcox	312 30
„ General road	223 70
Trail—Bear Creek	350 50
„ Kokanee	51 75
„ Lost Creek–Dewdney	50 00
„ Lost Cabin	25 00
„ Wolf Creek	39 00
Street—Fairview	674 40
Plant and tools	1,397 69
Tool-house, Castlegar	412 65
Tool-house, Trail	13 25
Camp equipment	273 18
Material	9 00

Trail District—Continued.

Supervision—General Foreman	$2,075 85	
„ Office	22 10	
„ Auto	328 56	
		$ 2,426 51
Total		$ 44,454 00

Yale District.

Road—Ashcroft–Cache Creek	$ 61 50
„ Ashcroft–14-Mile House	2,980 17
„ Ashcroft–Pennie's	568 10
„ Ashcroft–Spences Bridge	1,479 97
„ Back Valley	978 15
„ Barnes Lake	7 50
„ Bates	65 15
„ Benjamin	163 50
„ Cache Creek–Savona	2,324 39
„ Cain Valley	371 50
„ Cariboo	10 65
„ Chaumox	558 84
„ Chaumox–B.C. Silica Mine	494 05
„ Crisco	152 25
„ Coldwater	1,553 39
„ Collettville	533 15
„ Cornwall Cut-off	429 50
„ Coutlee Mountain	57 25
„ Deadman Creek	24 80
„ Douglas Lake	820 03
„ 8-Mile	67 25
„ 5-Mile	529 75
„ Fish Lake	624 75
„ George's	80 00
„ Gladwin	100 00
„ Grimshire	17 00
„ Haig–Yale	508 81
„ Harrison Hot Springs	861 95
„ Hat Creek (upper)	529 00
„ Herling Island Ferry	500 00
„ Highland Valley	1,323 50
„ Hope–Haig	282 03
„ Hope–Rosedale	4,788 83
„ Kaka Lake	274 13
„ Keefer's	102 00
„ Lindley Creek	400 00
" Loon Lake	71 50
„ Lytton Ferry	15 00
„ Lytton–Lillooet	2,632 73
„ Lytton (north)	436 97
„ Mamit Lake	1,230 50
„ Merritt–Nicola	467 89
„ Merritt–Princeton	2,306 24
„ Middlesboro–Midday	145 30
„ Mill Creek	6 86
„ Morris Creek	4 25
„ Murray Creek	136 40
„ Nicola–Kamloops	3,452 74

Yale District—Continued.

Road—Nicola–Princeton		$ 123 97
„ Nicola–Stump Lake		69 45
„ North Lytton		394 72
„ O.K. Mine		39 75
„ Petit Creek		1,116 12
„ Pike Mountain		79 00
„ Salmon River		52 00
„ Skagit		689 49
„ Spences Bridge–Merritt		5,037 01
„ Sunshine Valley		58 75
„ Venable Valley		134 25
„ Venable Valley (east)		49 00
„ Walhachin		1,922 55
„ Winch		2,609 41
Trail—Summers		278 50
Street—Ashcroft		198 00
„ Hope		356 08
„ Lytton		184 58
„ Merritt		81 80
„ Voigt		789 17
Plant and tools		1,836 72
Garage, Merritt		10 00
Material		631 14
Camp equipment		780 10
Supervision—Assistant Engineer	$2,924 76	
„ Office	1,261 38	
„ Auto	1,111 30	
		5,297 44
Total		$ 58,348 17

BRIDGES.

Alberni District.

Bamfield, No. 1	$ 62 50
Bamfield, No. 2	55 36
Baynes, No. 1	167 35
Baynes, No. 2	26 00
Baynes, No. 3	25 50
Baynes, No. 4	25 50
Beach	36 00
Beaver Creek, No. 163	9 11
Beaver Creek, No. 3	112 99
Beaver Creek, No. 4	31 75
Beaver Creek, No. 5	31 31
Beaver Creek, No. 6	18 50
Beaver Creek, No. 7	21 37
Beaver Creek, No. 8	10 00
Beaver Creek Wharf	84 27
Big Qualicum	102 37
Bridge No. 183	9 00
Bridge 13¼ miles from Alberni	47 00
Bridge 20 miles from Alberni	715 06
Bridge 26½ miles from Alberni	29 12
Bridge 27½ miles from Alberni	32 01
Bridge No. 9	61 74
Bridge No. 10	97 27

Alberni District, Bridges—Continued.

Bridge No. 12	$ 36 00
Cache Creek	91 87
Cameron Lake, No. 1	20 00
Cameron Lake, No. 2	18 50
Cape Scott	461 51
Central Lake	15 00
Chatworth Road	72 00
Cherry Creek	18 47
Chester	73 66
Coleman's	35 50
Deer Creek	38 02
Departure Bay	196 11
Englishman's River, No. 1	241 92
Englishman's River, No. 2	8 12
Fisherman's Bay, No. 107	25 37
Fisherman's Bay, No. 112	91 83
Fletcher Gulch	109 88
Hamilton	6 87
Hector's	26 66
Holberg Road, No. 1	106 67
Holberg Road, No. 2	110 00
Island Highway, No. 2	75 55
Island Highway, No. 3	63 85
Island Highway, No. 4	22 25
Island Highway, No. 5	18 77
Island Highway, No. 6	23 11
Island Highway, No. 7	54 59
Island Highway, No. 8	661 27
Island Highway, No. 9	17 00
Island Highway, No. 10	138 14
Island Highway, No. 11	425 69
Island Highway, No. 12	37 50
Island Highway, No. 13	50 11
Island Highway, No. 14	230 75
Island Highway, No. 15	31 40
Island Highway, No. 16	149 13
Island Highway, No. 17	145 35
Island Highway, No. 18	109 89
Island Highway, No. 19	191 60
Island Highway, No. 53	9 50
Jelly Creek	34 07
Kitsuksis	4 25
Little Niagara	21 47
Lagoon Dyke–Goose Harbour	24 93
Mission	23 00
Morrison's	72 12
Mountain Stream	225 24
Mosquito	132 15
McCoy Creek	1,539 61
McCoy Lake Road	4 25
Nanaimo Road, No. 3	92 06
Nanaimo Road, No. 4	97 03
Nanaimo Road, No. 8	14 25
Parksville	19 33
Qualicum	18 58
Quatsino, No. 2	22 00

Alberni District, Bridges—Continued.

Quatsino, No. 5	$	42 25
River Bend		75 83
Roger Creek		481 60
San Josef, No. 3		24 00
San Josef, No. 4		24 00
San Josef, No. 5		24 00
San Josef, No. 6		24 00
San Josef, No. 7		24 00
San Josef, No. 8		24 00
San Josef, No. 9		30 11
San Josef, No. 10		31 00
San Josef, No. 11		31 00
Somers		66 43
Sproat Falls		70 65
Spruce River		4,340 76
Thompson		47 47
Tofino Inlet and Ucluelet Trail, No. 165		66 45
Tofino Inlet and Ucluelet Trail, No. 166		46 64
Tofino Inlet and Ucluelet Trail, No. 167		57 00
Tofino Inlet and Ucluelet Trail, No. 168		76 74
Tofino Inlet and Ucluelet Trail, No. 177		136 24
Tofino Inlet and Ucluelet Trail, No. 178		744 21
Tofino Inlet and Ucluelet Trail, No. 179		164 12
Wellington, No. 163		35 67
Material		46 91
Total	$	15,149 91

Atlin District.

Bear River	$	6,015 10
Davidson		560 75
8-Mile		269 75
Little Tahltan		251 72
Nahlin		80 50
Prince Rupert Wharf (approach)		832 00
Tahltan		285 75
Teslin No. 1		170 40
Teslin, No. 2		154 50
Tooya		315 80
Snow service		274 00
Total	$	9,210 27

Cariboo District.

Australian Creek	$	717 25
Baker Creek		324 18
Beaver Lake		352 25
Beavermouth		25 00
Beaver Valley		53 75
Big Lake		393 50
Bullion Ditch		84 75
Canyon Creek		1,250 25
Cedar Creek		17 87
Chilcotin Road		431 44
Chilcotin River		98 50
Cottonwood		1,153 75
Deep Creek		677 98

Cariboo District, Bridges—Continued.

Deep Gulch (trestle)	$	1,000 00
4-Mile Creek, No. 69		79 62
4-Mile Creek, No. 70		134 75
4-Mile Creek, No. 72		244 74
4-Mile Creek, No. 73		1,110 12
Hanson Gulch		222 11
Harpers Camp Road		25 75
Hixon Creek		2,400 47
Horsefly River		559 73
Kersley Creek		204 03
Little Cottonwood		1,115 64
Menzinger Creek		46 50
Moffatt's		114 13
Morgan Creek		18 32
Nazko River		2,034 65
Newton's		74 80
9-Mile		264 00
177-Mile Post		275 00
Quesnel River		5,341 66
Quesnel River (North Fork)		24 50
Quesnel River (South Fork)		1,738 95
Quesnel Lake Dam		149 00
Rose Gulch		48 00
Sardine Creek		25 00
Saunders Creek		85 50
Sisters Creek, No. 1		53 00
Sisters Creek, No. 2		58 50
Siwash		162 00
Upper Horsefly Road		16 89
Williams Lake		73 50
Willow River		23 50
General		250 98
Total	$	23,555 81

Chilliwack District.

Chilliwack River Road, No. 3	$	172 50
Chilliwack River Road, No. 46		118 50
Chilliwack River Road, No. 47		93 50
Columbia Valley, No. 35		94 50
Columbia Valley, No. 36		94 50
Hope Slough		116 80
Provincial Highway, No. 5		2 00
Provincial Highway, No. 6		162 08
Provincial Highway, No. 7		21 50
Reserve		1,586 45
Rosedale Ferry Road		3,675 16
Sumas Mountain		166 71
Vedder River		111 26
Total	$	6,415 46

Columbia District.

General	$	200 38
Anderson		13 75
Blaeberry (lower)		11 50
Blaeberry (upper)		107 01

Columbia District, Bridges—Continued.

Bluewater	$	275 92
Bott's		186 05
Brady Creek		10 00
Bridge No. 119		28 50
Brisco		8,257 61
Brisco (vicinity of)		28 50
Bugaboo		34 75
Canal Flat		455 39
Canyon Creek		5 13
Dijordie River		234 33
Dodd's Creek		1 20
Dutch Creek		8,914 78
Fairmont		86 00
Galena		102 75
Golden		12 00
Golden–Donald Road		69 00
Horse Creek		204 86
Horsethief		80 65
Hospital Creek		39 00
Iron Slough		42 43
Kicking Horse		4,958 09
Lyttle Bridge		1,535 30
Ottason		49 50
Paradise Mine Road		350 75
Ptarmigan		48 00
Red Line		29 50
Salmon (north)		149 00
Salmon (south)		250 50
Sanborn Road, No. 162		25 50
Sanborn Road, No. 163		59 38
Sanborn Road, No. 164		29 75
Sparkling Creek		13 75
Spillimacheen		18 00
Spillimacheen (swing)		29 25
Toby		185 75
Toby Road, No. 169		48 74
12-Mile		21 00
Unnamed, No. 2		27 00
Unnamed, No. 3		173 21
Unnamed, No. 141		50 00
Unnamed, No. 142		75 00
Unnamed, No. 143		75 00
Washout Creek		145 58
Wilmer, No. 90		72 00
Wilmer, No. 91		63 00
Wilmer, No. 92		96 00
Wilmer, No. 96		20 00
Wilmer, No. 97		15 00
Wilmer, No. 98		15 00
Wilmer, No. 135		283 86
Wilmer, No. 139		95 00
Wilmer, No. 140		80 00
Wilmer, No. 166		84 00
Wilmer, No. 167		60 00
Wilmer (pontoon)		184 25
Total	$	28,817 15

Comox District, Bridges.

Plant and tools	$	694 06
Anderson's		501 72
Anderton's		159 11
Barnes		42 74
Bennett's		2 34
Berkley's		420 05
Bishop's		927 43
Black Creek		28 30
Bridge Creek, No. 1		55 00
Bridge Creek, No. 2		55 00
Bunker		6 00
Burrard		47 12
Cache Creek, Shushartie		57 00
Caljouw, No. 1		299 94
Caljouw, No. 2		325 00
Camp Creek		89 36
Cape Mudge		142 00
Charles Dickens		15 65
China Creek		22 60
Cortes Island		9 50
Cougar		469 12
Courtenay River		364 35
Courtenay Slough		41 62
Cross Road, No. 1		27 50
Cumberland–Dove Creek Road, No. 2		27 52
Cumberland–Dove Creek Road, No. 3		270 09
Drew Harbour		38 87
False Bay		28 50
Finlay's		833 58
Ford's		165 67
Grief Point		5 00
Hadley's		33 24
Harrigan's		76 50
Headquarters, No. 1		325 82
Headquarters, No. 2		4 25
Holt's		8 50
Joyce's		461 20
Lake		159 12
Law's No. 1		27 99
Law's, No. 3		19 00
Law's, No. 5		240 58
Little Swamp		41 25
Mathewson's		131 74
Milligan's		4 74
Millicheap		42 50
Minto School		54 00
Mitchell		35 37
Oyster River		130 00
Peterson Lake		37 00
Piercy's		71 00
Potter's		21 24
Powell River		18 75
Power-house		19 00
Puntledge River		1,533 76
Quatse River		2 95
Quelhoists		882 77

Comox District, Bridges—Continued.

Quinsam River	$	12,437 56
Reese		22 75
Rennison's		104 81
Salmon River, No. 1		80 00
Salmon River, No. 2		50 00
Salmon River, No. 3		70 00
Salmon River, No. 4		123 83
Salmon River, No. 5		75 00
Salmon River, No. 6		25 00
Salmon River (Sacht's Crossing)		270 54
Salmon River (second crossing)		1,361 25
Salmon River (third crossing)		189 12
School-house, No. 1		21 25
School-house, No. 2		14 87
Severson's		427 05
Shield's, No. 2		337 55
Shield's, No. 3		110 13
Shield's, No. 4		195 37
Shield's, No. 5		127 87
Shushartie		27 20
J. Smith's, No. 147		349 57
J. Smith's, No. 148		227 49
Smith's (north)		14 33
Stafford's		386 73
Stewart's		511 88
Swamp		4 25
Swanskie's		294 09
Trent River		73 75
Tsable River		175 49
Tsolum River		544 60
Turnstile		8 54
Washer Creek		14 00
Wesslin's		167 14
White River		1,043 53
White Sign		143 75
Total	$	30,574 30

Cowichan District.

Bonsall's	$	54 09
Cheerout		447 71
Chemainus River		25 13
Clemclemlitz		96 70
Corfield's		49 30
Cowichan Station		136 60
Dobson's		183 62
Dodd's		13 50
Duncan Wagon		614 98
Flett's		18 00
Halhead Road		46 90
Hillbank		417 67
Indian		306 50
Keating		248 01
Kelvin		157 98
Koksilah		23 85
LaFortune		15 00
Lewis		391 69

Cowichan District, Bridges—Continued.

Mainguy	$	46 50
Marshall		223 77
Millstream		3,583 70
McFarlane		193 19
McLellan		156 58
Nangle's		270 14
Pimbury's		68 20
Quamichan		153 00
Slide		136 25
Taggart		1,253 78
Wilkinson's		232 01
General		463 26
Total	$	10,027 61

Cranbrook District.

Aki	$	491 03
Aldridge		67 25
Bidder		19 50
Colony		48 94
Coulie		47 00
Curzon		74 70
East Fork		1,485 15
Flume		54 25
Goatfell		32 00
Green Road		169 96
Jap Ranch		45 25
Jenson		139 25
Kingsgate		79 67
Kootenay Reserve		16 00
Lake Creek		42 75
Lamb Creek		170 07
Meadow Creek		14 00
Miller		28 00
Mission		190 41
McPhee		321 79
Narrows		48 25
Peghin		42 75
Perry Creek		146 50
Rainy Creek		11 25
Ryan		48 18
St. Joseph, No. 7		183 69
St. Joseph, No. 8		86 94
St. Joseph (Everett Avenue)		62 19
St. Mary River		277 35
St. Mary River (North Fork)		962 98
St. Mary Lake, No. 35		597 62
St. Mary Lake, No. 213		45 50
Skookumchuck		47 25
Tochty		48 50
Torrent Slough, No. 197		177 57
Torrent Slough, No. 198		168 91
Unnamed, 11¼ miles, west of Cranbrook		93 44
Unnamed, 11½ miles west of Cranbrook		41 20
Unnamed, 11¾ miles west of Cranbrook		18 75
Ward's Ranch		51 29
Wycliffe		43 22

Cranbrook District, Bridges—Continued.

Yahk	$	53 80
General		64 60
Total	$	6,858 70

Delta District.

Bridge Reserve	$	207 07
Canoe Pass		2,399 00
Provincial Highway, 3.5 miles from Westminster		286 27
Provincial Highway, 3.8 miles from Westminster		286 26
Provincial Highway, 10.35 miles from Westminster		1,139 49
Total	$	4,318 09

Dewdney District.

Aliceville	$	44 25
Anderson		61 50
Barton		1,123 11
Bouchier		217 91
Deroche Slough		534 36
Dewdney		783 63
Doherty		19 17
Donitelli		45 36
George		24 00
Graham Slough		185 67
Hatzic Prairie		1,389 91
Jenkins Slough		311 60
Kenworthy		45 00
Laity		302 19
McCauley		648 96
McKenney		65 00
Nicomen		95
Patterson		77 56
Pitt River		519 70
Port Coquitlam		527 37
Pump-house		217 62
Rawley		135 35
Reserve		7 85
School		130 42
Scott Creek		353 69
Shaw		97 25
Shook		264 59
Squakum		100 00
Stave River		1,465 23
Tom		167 50
Whonnock Creek		185 76
General		309 99
Total	$	10,362 45

Esquimalt District.

Albert Head	$	210 15
Arbutus Canyon		455 78
Coal Creek		63 50
Craigflower		82 00
Gillespie		9 00
Gorge		1,152 35

Esquimalt District, Bridges—Continued

Hall's	$	238 36
Happy Valley		10 75
John Creek		560 83
Jordan River, No. 44		63 00
Jordan River, No. 45		73 79
Jordan River, No. 47		89 00
Jordan River, No. 50		2,003 20
Jordan River, No. 51		1,949 50
Jordan River, No. 52		7 00
Jordan River, No. 57		646 33
Jordan River, No. 59		778 56
Jordan River, No. 60		120 25
Jordan River, No. 61		298 44
Jordan River, No. 62		35 00
Jordan River, No. 64		69 83
Koksilah		1,452 53
Otter Point		16 32
Parson's		591 44
San Juan (east), No. 101		70 75
San Juan (east), No. 105		90 89
San Juan (west), No. 116		201 03
Sooke River		240 97
Victoria–Campbell River Road, No. 145		773 41
Victoria–Campbell River Road, No. 148		359 00
Victoria–Campbell River Road, No. 149		473 50
Vancouver Island Trunk Road, No. 123		88 75
Vancouver Island Trunk Road, No. 128		217 10
Vancouver Island Trunk Road, No. 133		418 05
Vancouver Island Trunk Road, No. 136		686 77
Vancouver Island Trunk Road, No. 138		218 50
General		518 56
Total	$	15,334 19

Fernie District.

Coal Creek	$	1,716 06
Doyle's		69 50
Elkmouth		1 50
Elk Valley		2,256 35
Elko		970 63
Fairy Creek		109 00
Fairy Creek (small bridge)		132 85
Hosmer		15 80
Kootenay River (at Fort Steele)		987 60
Levett		30 25
Michel		306 00
Michel (mouth of)		622 75
Morrissey		361 11
Rock Creek		23 55
Roosville		96 74
Slough		394 22
Sparwood		552 05
Waldo		43 76
Wardner		305 46
Waters Ranch		344 44
Wasa		56 50
West Fernie (new)		17,393 88

Fernie District, Bridges—Continued.

West Fernie (old)	$	464 97
Wilson Creek		517 50
Total	$	27,772 47

Fort George District.

Material and plant	$	340 84
Ashcroft–Summit Lake Road		334 39
Atkinson		315 30
Austin Creek		150 00
Backwater, Fraser River, No. 1		379 72
Backwater, Fraser River, No. 2		280 72
Baker Creek		427 28
Bateman Creek		150 00
Bear Trap		337 25
Beaver Dam		175 75
Buffalo		231 49
Burdette		817 92
Butcher's Flat Creek		71 00
Chilko		2,366 71
Clarke, No. 1		195 13
Clarke, No. 2		193 74
Cluculz Creek		141 00
Collishaw, No. 1		252 25
Collishaw, No. 2		87 15
Cottonwood Creek		461 63
Crescent Creek		150 00
Crooked Creek, No. 1		185 08
Crooked Creek, No. 2		185 08
Curzon		73 00
Cutbank		13,516 64
Dago Creek		544 18
DeWetter		278 25
Dore River		61 75
Dry Creek		100 00
Dry Slough (Williams Lake)		65 00
Dunster		24 50
18-Mile, No. 1		286 50
18-Mile, No. 2		274 75
Erickson Creek		38 80
Falkin Creek		215 00
Finlayson Creek		387 00
Finlayson, No. 1		140 00
Finlayson, No. 2		65 00
Finlayson, No. 3		82 00
Fort George–Hazelton Road		236 66
4-Mile		250 00
Gillies Creek		48 00
Goodall		281 38
Grand Trunk Pacific Railway (at Prince George)		135 00
Hall, No. 1		330 18
Hall, No. 2		245 65
Hankin Creek		512 75
Hanson Creek		130 63
Harper's		241 99
Hay Creek		29 24
Hayward		250 00

Fort George District, Bridges—Continued.

Herdman	$	251 13
Hooson Creek		381 33
Hudson Bay Slough		224 51
Hunter		1,060 50
Indian		281 37
Indian Reserve		50 00
Johnson Creek		349 75
King Creek		472 49
Little Bob		125 00
Long		325 91
Lot 951, Fort George–Hazelton Road		127 39
Maples Cut-off		713 00
Maunders		64 00
Mission		53 50
Moose Creek		76 50
Mosher Creek		565 11
Mosquito Creek		48 00
Mountain Creek		124 00
Mount Robson		7 95
Mud Creek		55 00
Mud River		23 14
Murray Creek (Jones Road)		459 45
Murray Creek (Noonla Lake)		344 62
McCullough		1,049 48
McGregor		191 52
McHenry		161 24
McMillan		779 64
Nechako (at Fort Fraser)		382 08
Nechako (at Fort George)		1,291 56
Nechako (at Vanderhoof)		100 51
Necoslie		7 94
Newlands		29 00
Ocock		251 50
Pickering Creek		113 73
Poison Creek		187 75
Poplar Creek		162 65
Pouce Coupe		684 87
Punchow Lake Road, No. 1		57 87
Punchow Lake Road, No. 2		57 64
Queen Street		18 16
R.A., No. 15		99 25
Ramant		30 72
Rance Creek		84 12
Red Rock		547 45
Reed Creek		30 63
Rock Creek (at Taylor's)		178 25
Rock Creek, No. 11		671 01
Rock Creek, No. 13		417 90
Rounsell		190 54
Salmon River Road		3,957 31
Salmon River Road Back Channel, No. 1		1,554 40
Salmon River Road Back Channel, No. 2		779 09
Sand Creek		1,899 89
Saskatoon Creek		536 91
17-Mile		441 00
Slim Creek, No. 1		85 00

Fort George District, Bridges—Continued.

Slim Creek, No. 2		$ 85 00
Smith Creek		83 91
Spence Creek		40 00
Starvation Creek		185 11
Stellako		302 50
Stone Creek		7 94
Stony Creek (Blackwater Road)		266 45
Stony Creek (Fort George Road)		2,118 76
Stuart Creek		84 75
Sturgeon Point		635 00
Swede Creek, No. 1		103 75
Swede Creek, No. 2		103 75
Swift		47 25
Teepee Creek		400 08
Thirty Creek		196 71
Tremblay's		1,707 12
Tsilcoh		128 25
Tsinkut River		8 75
Tumbledick, No. 1		45 00
Tumbledick, No. 2		50 63
24-Mile Creek		184 15
2-Mile Creek		358 25
Vanderhoof		1,593 44
Vanderhoof (trestle)		1,171 30
Viney		667 01
Watts		427 98
Welch		133 50
Wright		3,394 96
Total		$ 64,818 84
Expenditure	$63,319 34	
Add transferred from Roads	2,540 00	
	$65,859 34	
Less transferred to Capital Account, Vote 260	1,040 50	
Total	$64,818 84	

Grand Forks District.

Carson's	$ 145 34
Cascade (lower)	175 60
Christina	307 44
Cooper	805 98
East Fork of North Fork Kettle River	1,547 50
First Street	96 98
Fourth Street	77 79
Total	$ 3,156 63

Greenwood District.

Anaconda	$ 49 25
Boundary Falls	23 96
Bridesville	77 14
Greenwood City	110 50
Greenwood, No. 29	48 85
Ingram	492 84
Kettle River	936 50

Greenwood District, Bridges—Continued.

Midway	$	175 31
Motherlode		5 25
Mulligan		14 00
Nicholson		101 00
Rock Creek		59 98
Waddell		100 75
Wartman		5 25
Westbridge		1,095 81
White Cabin		8 00
Williamson (upper)		5 25
Williamson, No. 64		123 05
General		67 81
Total	$	3,500 50

Islands District.

Divide, No. 13	$	600 00
Ganges–Fulford Road		800 82
Horton Bay Road		350 91
Lower Cranberry		400 00
Main Road		28 55
Morgan's		31 55
Saturna		25 25
Tripp's Road		490 00
Total	$	2,727 08

Kamloops District.

Adams River (lower)	$	2,070 00
Barriere, No. 68		1,591 35
Barriere River Forks		274 50
Barriere River Forks, No. 1		75 00
Barriere River Forks, No. 2		75 00
Blackpool Station		199 98
Boulder Creek		200 00
Cedar Gulch		375 11
Celista		200 00
Dunn Creek		547 51
Jameson Creek		356 41
Kamloops (east)		2,602 57
Kamloops (west)		5,685 27
Kinghorn		1,599 86
Lemieux Creek, No. 1		399 70
Lemieux Creek, No. 2		50 00
Lemieux Creek, No. 3		75 00
London's Lane		225 25
Mount Olie		70
McMurphy (suspension)		505 20
Pritchard		196 00
Robbins Creek		293 42
Rose Hill		246 01
Savona		2,907 01
Scotch Creek		1,491 87
Shuswap		1,408 45
Skiddam, No. 1		261 98
Skiddam, No. 2		50 00
Squilax, No. 1		46 86

Kamloops District, Bridges—Continued.

Squilax, No. 2	$	74 37
Taylor		240 00
Tranquille		70 00
Material		75 94
Total	$	26,358 86

Kaslo District.

Ainsworth	$	19 50
Bjerkness Creek		116 20
Canning		238 62
Carn Creek		48 00
Cottonwood		9 00
Daney		5 25
English		9 00
Goat River		8,610 31
Goat River Canyon		192 00
Gold Gulch		111 75
Grant		9 00
Hazel Creek		50 00
Kidd Creek		235 00
Kootenay Valley		60 00
Lardeau		10 50
Lizzard		159 25
Medford		85 75
Poplar		328 36
Russell Creek		137 66
Silver Cup		52 50
Sullivan Creek		291 66
Underhill		4 50
Walkers		802 80
Williams		50 50
Wynndel		255 14
Zwickey, No. 1		117 95
Zwickey, No. 2		100 50
General, snow service		342 00
Total	$	12,452 70

Lillooet District.

Anderson	$	49 00
Baker		36 00
Big Bar Forks		18 00
Big Creek, No. 2		10 50
Bishop		94 40
Bridge Creek–Roe Lake Road		180 00
Bridge River Forks		38 25
Bridge River (mouth of)		73 59
Brigham Creek		50 00
Burkholder		38 24
Cayoosh		145 05
Chilcotin (suspension)		7,672 68
Criss Creek		60 00
Deadman's Creek		12 75
Deer Creek		28 00
Doering		30 50
59-Mile		116 00

Lillooet District, Bridges—Continued.

51-Mile Creek		$ 36 30
Fountain, No. 57		305 62
Fountain, No. 183		153 25
14-Mile Creek		4 65
Gunn Creek, No. 1		33 92
Gunn Creek, No. 2		18 92
Hanceville		159 87
Hat Creek		127 00
Lac la Hache, No. 1		188 50
Lac la Hache, No. 2		292 50
Leon Creek		96 00
Lick Creek		3 95
Lillooet Hatchery		113 25
Lillooet Station		92 04
Lillooet (suspension)		146 11
Little Slide, No. 1		790 35
Little Slide, No. 2		416 59
Little Slide, No. 3		472 76
111-Mile Creek		42 50
Pavilion		5 00
Pigeon		94 40
Portage, No. 2		21 87
Riley		4 00
Scottie Creek		20 00
Seton, No. 1		90 00
Seton No. 2		183 29
Siwash Creek		49 00
South Fork		94 84
12-Mile–Doering		276 27
25-Mile Gulch		3,538 00
Tyaxon		29 42
Ward's Ferry		649 31
Watson Bar		49 93
Whitley		15 00
General		142 50
Total		$ 17,409 90
Expenditure	$16,131 33	
Transferred from Roads	1,278 57	
Total	$17,409 90	

Nanaimo District.

Chase River		$ 180 64
Dickinson's		18 92
Gourlay's		302 78
Millstone		66 11
Nanaimo		4 80
General		80 00
Total		$ 653 25

Nelson District.

D. M. Burgoyne		$ 126 50

Newcastle District.

General		$ 692 50
Boat Harbour		37 00

Newcastle District, Bridges—Continued.

Brenton's	$	100 00
Bush Creek, No. 1		303 22
Bush Creek, No. 2		1 10
Bush Creek, No. 3		133 83
Cassidy		52 50
Davis		223 50
Diamond Crossing		31 00
First Creek		281 70
Gourlay's		35 01
Haslam Creek, No. 17		750 36
Haslam Creek, No. 18		239 80
Jingle Pot, No. 1		98 38
Jingle Pot, No. 2		4 00
Jingle Pot, No. 3		4 00
Morrison, No. 1		35 00
Morrison, No. 2		123 50
Morrison, No. 3		583 40
Morrison, No. 4		73 50
Nanaimo River		197 28
Solmie's		2 00
Swamp		165 71
Thatcher's		131 40
Walker's		64 98
Waterloo		21 00
Wellington (east)		49 93
Total	$	4,535 60

North Okanagan District.

Alber's	$	70 00
Baxter's		1,398 75
Blair		72 65
Bluenose		40 25
Boleau		74 10
Branchflower		44 40
Brash Creek		326 52
Butters		150 00
Cherry Creek		150 00
Cook Creek		66 00
Creighton		19 50
Derby		239 06
Dure Meadow, No. 1		46 50
Dure Meadow, No. 2		79 50
Endall		68 25
Enderby (new)		8,356 45
Falkland		9 50
Falls Creek		123 00
Finlayson		132 86
Fortune		502 80
Fould's		176 67
Fowler		4 75
Glenemma		40 12
Goossen		297 83
Grindrod		680 49
Haines & Wright		1,187 90
Harris		124 24
Harrison Creek		36 50
Johnson		21 12

North Okanagan District, Bridges—Continued.

Kempton		$ 107 50
Kingfisher		21 00
Lawrence		277 47
Lumby		126 30
Mara		197 91
Moore's		105 25
McKay's		60 00
Pearcy's		143 62
Reiswig		1,635 92
Robertson's		994 21
Robinson		300 00
Schunter's		101 85
6-Mile, No. 1		22 00
6-Mile, No. 2		22 00
6-Mile, No. 3		188 00
Stony Creek		59 50
Sullivan		81 25
Three miles from Vernon, No. 162		312 63
Unnamed, No. 138		17 91
Unnamed, No. 151		47 87
Unnamed, No. 170		53 75
Unnamed, No. 180		39 88
Unnamed, No. 181		453 04
Total		$ 19,908 57
Expenditure	$19,081 17	
Transferred from Roads	827 40	
Total	$19,908 57	

North Vancouver District.

Alice Creek	$ 120 04
Billington	69 00
Bonson, No. 1	228 00
Bonson, No. 2	55 50
Bowden	55 24
Butterfield, No. 28	201 23
Butterfield, No. 29	143 60
Burnes	30 00
Chicken Soup	37 30
Gladwin	84 00
Grafton Bay	57 50
Flume, Gibson's Landing	45 00
Halfmoon	177 14
Harris Creek	95 53
High	57 50
Jacob Louie	115 00
Kirk	32 25
Kylo	30 00
Langdale	34 00
Low	57 50
Miller Creek	8 51
Mission	1,006 19
Mosquito Charlie	30 00
Nameless, Squamish, No. 2	61 32
Nameless, Squamish, No. 4	22 30
Nameless, Squamish, No. 60	20 00

North Vancouver District, Bridges—Continued.

Nameless, Squamish, No. 62	$	40 50
Nameless, Squamish, No. 63		45 50
Nameless, Squamish, No. 64		36 50
Nameless, Squamish, No. 65		29 25
Nameless, Squamish, No. 68		46 10
Nameless, Squamish No. 69		55 50
Nameless, Squamish, No. 80		42 20
Nameless, Squamish, No. 81		291 89
Neal		185 04
Ontario		150 25
Parquet		22 55
Pemberton Meadows, No. 122		10 00
Pemberton Meadows, No. 123		14 00
Pemberton Meadows, No. 124		11 00
Pemberton Meadows, No. 125		13 50
Pemberton Meadows, No. 126		12 62
Pillchuck		114 57
Reserve, No. 56		179 75
Reserve, No. 59		4 25
Ryan Creek		3,052 05
Roberts		17 64
Roberts Creek, No. 46		231 00
Roberts Creek, No. 47		28 00
Salmon Arm		37 18
Schobinger		12 00
School-house, Gibson's Landing		28 25
Seames		16 15
Squamish Slough		16 75
Squamish, No. 3		59 19
Squamish, No. 4		37 00
Squamish, No. 6		3 24
Squamish, No. 9		453 16
Squamish, No. 10		60 33
Squamish, No. 11		61 29
Squamish, No. 12		57 50
Taylor		36 00
Wilson		71 25
Wop		21 15
Material		151 03
Total	$	8,628 78
Expenditure	$8,649 86	
Less transferred Richmond District	21 08	
Total	$8,628 78	

Omineca District.

Babine River	$	1,051 29
Bear Creek		220 50
Brown Creek		2,117 12
Buck River, No. 1		280 25
Buck River, No. 2		297 85
Bulkley River (at Hazelton)		226 64
Bulkley River (at Telkwa)		2,573 74
Burns Lake		741 75
Burns Lake (log)		197 25
Burrows Creek		299 37

Omineca District, Bridges—Continued.

Canyon Creek	$	500 00
Driftwood Creek, No. 1		798 60
Driftwood Creek, No. 2		313 05
Driftwood Creek, No. 3		465 00
Driftwood Creek, No. 4		13 10
Driftwood Creek, No. 5		208 53
Endako, No. 1		40 00
Endako, No. 2		33 25
4-Mile		1,467 40
Gramophone Creek		400 00
Grouse Creek		738 50
Hazelton		65 00
Hubert		1,516 81
Kispiox Canyon		32 00
Kitsequekla		3,700 00
Manson Creek Trail		197 50
Meadow Creek		179 03
Moricetown		13 50
McEvoy Creek		4 00
Nadina		1,027 50
115-Mile		148 00
Pleasant Valley		5,051 31
Quick		4 50
Savory		44 25
Smithers		4,495 33
Tchesinkut		348 00
Telkwa		136 25
3-Mile		1,147 87
Toboggan Creek		526 25
Trout Creek		300 00
Total	$	31,920 29

Prince Rupert District.

Plant	$	2,360 00
Bohler's		6 52
Brauns Island		3,410 53
Breckenbridge		40 00
Brown's		271 51
Canoe Crossing		178 06
Canyon Creek		36 00
Cedar River		187 50
Chown Creek		1,058 15
Clayton's		49 50
Clear Creek		128 50
Cokely		50 12
Corlette		36 00
Creelman		61 75
Dilkatla		44 25
Douglas Creek		521 50
Fiddler Creek		1,703 05
4-Mile (Bella Coola)		4 55
Gilbert		22 95
Hurns		433 65
Kitwanga		51 00
Leanto Creek		23 00
Legate Creek		54 00

Prince Rupert District, Bridges—Continued.

Manson Way	$	5 00
Mill Creek		766 15
Moose Creek		6,000 00
Necleetsconnay River		78 75
Pacific Slough		25 44
Nygaard's		47 80
Saloomt		70 61
Sangon River		2,102 75
Sangstad		102 22
School		3 31
Skiepstad		30 00
Swan Creek		44 00
Terrace Slough		4,379 65
Thornhill Creek, No. 1		20 80
Thornhill Creek, No. 2		46 00
Walker's		65 00
Williams Creek		5,098 67
Total	$	29,618 24

Revelstoke District.

Anderson	$	37 17
Barlow's		84 00
Beaton		94 35
Big Bend, Mile 8		62 00
Big Bend, Mile 9		128 75
Bossley		4 50
Bowie		9 00
Boyd Creek		38 00
Columbia		1,541 84
Craigellachie		13 25
Cranberry Creek		56 58
Downie Creek		708 74
Eagle River		137 80
Fish River Canyon		13 50
Galena Bay		910 31
Goldfields		6,112 35
Greeley Creek		1,086 79
Half mile east of Bowie		42 75
Halverson's		22 50
Hill Creek		34 13
Illecillewaet River		34 00
Illecillewaet River (upper)		16 31
Illecillewaet River (½ mile from Canyon)		4 50
Leslie		49 06
Malakwa (foot-bridge)		90 13
Mammoth		123 50
Menhennick		21 00
Mohawk Creek		27 50
Montana Slough		585 11
Moorwood		44 00
Mountain		57 00
9-Mile		333 55
North Fork of Illecillewaet		9 00
North Fork of 9-Mile		13 50
Olson's		320 00
One mile east of Bowie		32 25

Revelstoke District, Bridges—Continued.

Power-house		$ 6 00
Sandslide (trestle)		2,198 61
Sandslide		158 00
Siltas		26 25
Scott Creek		115 50
Silver Creek		25 25
Sims		47 37
Slough, No. 2		117 38
Stragas		18 75
Three-quarters of mile east of Revelstoke		8 50
General, snow service, etc.		722 56
Total		$ 16,342 89

Richmond District.

Beacon Gulch		$ 100 00
Eburne Bridges		6,186 86
Lulu Island		1,913 28
Sea Island		2,358 45
University		96 25
Total		$ 10,654 84
Expenditure	$10,633 76	
Add transferred from North Vancouver District	21 08	
Total	$10,654 84	

Rossland District.

Deschamps Road (north), No. 1		$ 17 71
Deschamps Road (north), No. 2		17 70
Deschamps Road (north), No. 3		2 00
Old Trail Road		13 20
Rossland–Trail Road		266 69
Stony Creek		30 00
Total		$ 347 30

Similkameen District.

Arcat Creek		$ 66 65
Copper Mountain		23 33
Fairview–Rock Creek, No. 1		18 25
Fairview–Rock Creek, No. 2		18 25
Fairview–Rock Creek, No. 3		36 50
Fairview–Penticton Road, No. 24		212 53
Fairview–Penticton Road, No. 25		243 98
Fairview–Penticton Road, No. 26		2,623 23
Fairview–Penticton Road, No. 27		147 61
Fairview–Penticton Road, No. 28		147 61
Fairview–Penticton Road, No. 31		60 22
5-Mile Road		207 20
Granite Creek		91 86
Granite Creek–Coalmont Road		284 79
Hedley streets		206 40
Keremeos Creek		96 00
Keremeos–Hedley Road		294 00
Keremeos Land Co.		166 60
Okanagan River		80 85

Similkameen District—Continued.

Penticton–Fish Lake Road (14 small)	$	1,810 44
Penticton–Fish Lake, No. 111		191 00
Penticton–Fish Lake, No. 112		206 97
Penticton–Fish Lake, No. 113		172 32
Penticton–Fish Lake, No. 115		224 51
Penticton–Fish Lake, No. 116		444 98
Princeton–Otter Lake Road		214 96
Princeton, No. 136		107 39
South Keremeos		1,367 66
Squakum		238 35
General		209 55
Total	$	10,213 99

Slocan District.

Anna Trail	$	49 50
Appledale		107 09
Arrow Park, No. 23		25 20
Arrow Park, No. 24		48 35
Arrow Park, No. 25		11 20
Box Lake Road, No. 1		61 26
Box Lake Road, No. 2		39 14
Brandwater Trail		13 50
Carpenter Creek		3,217 50
Cedar Creek		26 50
Cemetery Road		19 88
Cody Road		46 33
Columbia River Road, No. 30		8 50
Columbia River Road, No. 32		26 38
Columbia River Road, No. 33		8 50
Columbia River Road, No. 56		9 75
Columbia River Road, No. 74		21 38
Crescent Bay		23 00
Demars		9 75
Dog Creek, No. 1		270 28
Dog Creek, No. 2		230 13
Edgewood–Needles Road		5 40
Ewing's		524 69
Fauquier Trail		30 93
Ferret's, No. 139		31 00
4-Mile Creek, No. 141		47 00
4-Mile Creek, No. 142		36 25
4-Mile Creek, No. 143		12 00
4-Mile Creek, No. 145		12 00
4-Mile Creek, No. 147		12 00
Goat Creek		35 03
Harrison's Road		7 13
Howson Creek		484 75
Idaho		38 00
Inonoaklin Creek		35 90
Jo-Jo Trail		26 13
Lemon Creek, No. 183		91 69
Lemon Creek (small)		95 00
Mineral		56 00
McCormack		83 07
McDonald		9 75

Slocan District—Continued.

New Denver–Silverton Road	$	13 00
North Fork of Carpenter Creek		639 55
Passmore		60 74
Perry Siding		1,185 03
Robertson Creek		549 98
Robinson's		28 25
Sandon–Cody		650 00
School		9 75
Silverton		42 26
Slocan City		71 62
Slocan River Road (west), No. 184		4 50
Slocan River Road, No. 5		4 50
Slocan River, No. 6		13 50
Slocan River, No. 7		9 00
Star Creek		58 50
Tait Creek		52 49
Trussell's Road, No. 1		50 00
Trussell's Road, No. 2		43 75
Vallican		79 64
Walker		1,464 64
Whatshan River		78 03
Wilson Creek		42 47
Winlaw		65 00
General, snow service, etc.		11 73
Total	$	11,174 77

South Okanagan District.

Carsorso	$	348 62
Dry Gulch		188 19
Duck Creek, No. 3		10 50
Duck Creek, No. 4		49 24
Hydraulic Creek		90 23
K.L.O., No. 3		151 62
Mill Creek		121 52
Powers Creek, No. 1		114 62
Powers Creek, No. 2		175 46
Trout Creek		132 77
Total	$	1,382 77
Expenditures	$1,468 89	
Less transferred to Roads	86 12	
Total	$1,382 77	

South Vancouver District.

Hastings–Barnet Road	$	477 21
River Road		7,850 00
Total	$	8,327 21
Less refund, South Vancouver Corporation, account of River Road		3,925 00
Total	$	4,402 21

Trail District.

Bear Creek	$	23 00
Bunker Hill		49 88

Trail District—Continued.

Castlegar	$	7 87
Columbia River (at Trail)		689 75
Crescent Valley		462 28
Garrity		59 00
Granite Road, No. 1		58 50
Granite Road, No. 3		68 88
Granite Road, No. 6		50 24
Harrows Creek		34 50
Kelly Creek		727 07
Knox Road		14 25
Murphy Creek		61 35
Narrows Creek		23 75
Nelson–Balfour Road, No. 4		9 75
Nelson–Balfour Road, No. 5		12 00
Nelson–Balfour Road, No. 6		9 50
Nelson–Balfour Road, No. 8		174 93
Nelson–Waneta, No. 2		115 20
Nelson–Waneta, No. 3		232 00
Nelson–Waneta, No. 4		292 19
Nelson–Waneta, No. 5		11 93
Nelson–Waneta, No. 6		206 50
Nelson–Waneta, No. 7		58 99
Nelson–Waneta, No. 8		170 30
Nelson–Waneta, No. 9		256 88
Pass Creek		17 50
Porcupine Creek, No. 1		15 98
Porcupine Creek, No. 2		48 02
Salmon River, No. 2		14 63
Salmon River, No. 8		10 00
Salmon River–Boundary Lake Road		34 75
Salmon River (North Fork)		25 87
Salmon River (at Salmo)		962 31
Salmon River (over Sheep Creek)		655 90
Salmon River (at Ymir)		8,100 75
Shoreacres		1,129 67
Silver King		26 83
Thrums–Brilliant		1,454 22
Trail–Castlegar, No. 21		1,203 56
Trail–Castlegar, No. 3		32 00
Trail–Castlegar, No. 4		30 00
Trail–Castlegar, No. 9		41 25
Trail–Castlegar, No. 11		34 00
Trail–Castlegar, No. 12		26 00
Wild Horse		20 00
Yellowstone Road, Mile 7.6		40 00
Yellowstone Road, Mile 8		31 00
Ymir Highway		5 00
Ymir Townsite, No. 199		229 39
Ymir Townsite, No. 200		389 58
General		18 93
Total	$	18,477 63

Yale District.

American Creek	$	48 25
Armatage		240 96
Ashcroft		1,988 43

Yale District—Continued.

Back Valley, No. 113	$	184 75
Back Valley, No. 114		144 00
Burns		86 82
Bridge, No. 125		18 00
Bridge, No. 156		41 75
Cache Creek		1,041 98
Caignon		122 50
Chapman		55 04
Chaumox		45 00
Collettville		1,191 12
Coquahalla		61 50
Cornwall Cut-off, No. 94		183 50
Cornwall Cut-off, No. 95		236 15
Coyote Mountain		112 00
Dry Gulch, No. 69		24 10
Dry Gulch, No. 71		188 00
8-Mile		227 23
Elliott Creek		27 25
Flood's		12 75
40¼ miles east of Haig		54 05
41½ miles east of Haig		69 05
Haig–Yale		36 29
Harrison Hot Springs, No. 1		647 07
Harrison Hot Springs, No. 2		15 00
Hazelton, No. 4		261 05
Hedley, No. 1		257 80
Hedley, No. 2		303 80
Highland Valley		133 39
Hope–Rosedale, No. 20		6 00
Hope–Rosedale, No. 21		17 00
Hope–Rosedale, No. 23		5 16
Hope		98 55
Hunter		45 80
Maria Slough		2,586 59
Middlesboro		183 96
Murray Creek		50
McKay's		155 95
North Lytton		70 00
Otter Creek, No. 174		85 83
Otter Creek, No. 175		56 00
Otter Creek, No. 176		659 20
Patchett		90 50
Pike Mountain		217 68
Round Lake		277 80
Salmon River, No. 165		55 90
Salmon River, No. 166		60 90
Salmon River, No. 167		56 95
School		11 44
7-Mile		85 60
Slough (36.5 miles from Merritt)		60 39
Spencer's		1,093 62
Texas Creek		50 00
13-Mile		128 40
Walhachin		139 00
General		220 65
Total	$	14,577 95

Bridges Generally.

General		$ 1,437 84
Inspection		1,574 63
Total		$ 3,012 47

PROTECTION TO RIVER-BANKS.

Alberni—		
Cameron River	$ 385 84	
Spruce River	298 42	
		$ 684 26
Atlin—Kitsault River		4,090 72
Chilliwack—Vedder River		819 50
Columbia—Kicking Horse		11,130 66
Dewdney—Nicomen Island		850 87
Fernie—		
Elk River, North Fernie	$5,164 64	
Elk River, West Fernie	2,501 68	
Michel River (at Natal)	826 40	
	$8,492 72	
By Crow's Nest Pass Co.	3,250 00	
		5,242 72
Kaslo—		
Kaslo Creek	$ 75 00	
Lardeau River	147 75	
		222 75
Prince Rupert—Bella Coola River		1,713 66
Total		$ 24,755 14

LOCATION OF ROADS.

Alberni—Dawson Road		$ 37 55
Atlin—		
Alice Arm Shore Road	$ 195 70	
Alice Arm Wing Dam	27 20	
Bear River Road	40 00	
Bear River Bridge	26 00	
Salmon River Road	149 35	
Stewart–Hyder	166 50	
		604 75
Cariboo—Quesnel–Barkerville Road		20 00
Chilliwack—Sardis–Rosedale		1,238 58
Comox—		
Cumberland–Dove Creek	$ 350 67	
Lake Trail	65 25	
Sacht's Crossing	816 36	
Sandwick–Little River	243 87	
Drainage Survey	138 98	
General	56 50	
		1,671 63
Cowichan—Cowichan Lake (reconnaissance)		860 53
Cranbrook—		
Roads adjacent to Cranbrook	$ 32 50	
Inter-Provincial Highway	3,745 11	
		3,777 61
Delta—Scott Road		43 55
Dewdney—McKenney Creek Diversion		55 00

LOCATION OF ROADS—*Continued.*

Esquimalt—		
Island Highway, Colwood	$ 390 83	
Millstream–Pike Lake Road	56 95	
Muir Road	132 50	
Robertson Road, Port Renfrew	15 22	
		$ 595 50
Fernie—		
Corbin Road	$2,455 62	
Morrissey Road Crossing	24 50	
Newgate–Waldo	1,437 16	
Beard's Road	30 00	
Wasa–Columbia Road	2,324 97	
		6,272 25
Fort George—Fort George–Summit Lake		150 00
Kamloops—		
Anglemont–Squilax	$ 761 60	
Beaton–Fish Lake	243 25	
Blind Bay–Eagle Bay	329 25	
Campbell Meadows	136 50	
Celista Road	458 00	
Chase–Nault–Salmon Arm	4,466 69	
Heffley Station–Kamloops Road	20 00	
Indian reserves, Shuswap Lake	130 50	
Indian reserves, near Tappen	30 30	
Robins Range, Canadian National Railway	370 48	
Rose Hill	113 25	
Savona–Kamloops	412 50	
		7,472 32
Kaslo—		
Ainsworth–Queen's Bay	$1,320 00	
Arrow Creek Trunk Road	35 00	
		1,355 00
Islands—North Saanich Roads		711 95
Nanaimo—Island Highway		377 95
Newcastle—		
Cassidy's Road	$ 86 00	
Greenway's Road	271 05	
Haslam Creek	24 00	
Timberland Crossing	22 10	
		403 15
North Okanagan—		
Armstrong–Deep Creek	$1,697 58	
Fowler–Willett	361 15	
Grand View Heights Extension	317 26	
Grand View Heights–Edgar Road	345 45	
Kelowna–Vernon Diversion	258 60	
Leckie–Ewing Road (east side)	450 73	
Piatt Road	327 75	
Sicamous–Mara Lake	984 47	
Trinity Valley–Smidek Branch	351 05	
Wolfgang Road	777 10	
		5,871 09
North Vancouver—		
Bowen Island	$ 176 75	
Pemberton Meadows	1,516 27	
Wilson Creek	87 01	
		1,780 03

LOCATION OF ROADS—*Continued.*

Omineca—Main Fraser Lake Road		$ 245 00
Prince Rupert—		
Ardagh Road	$ 13 00	
Bayview Trail	15 00	
Breckenridge–Copper City	20 00	
Cedarvale–Kitwanga Road	113 30	
Copper City–Kitimat Road	10 00	
Chown Point–Delkatla	43 60	
Duncan Road	15 00	
Egan's Trail	15 00	
Graham Centre Road	10 00	
Gold Creek Trail	112 45	
Hughes Road	10 00	
Keith's Road	20 00	
Kitsalas Canyon Crossing	35 00	
Kitsumgallum Lake Main Road	40 30	
Lake Shore Road	19 00	
Meanskinisht–Kitwanga Road	15 00	
Merkley Road	31 25	
Mexican Tom Trail	394 35	
Mill Creek	32 90	
McLeod Road	20 00	
McPherson Trail	10 00	
Oleander Trail	19 65	
Port Clements–Meyer Lake Road	20 00	
Refuge Bay–Jap Inlet	38 00	
Sandspit–Copper Bay Trail	20 00	
Skidegate–Tlell Road	35 00	
Skidegate–Queen Charlotte City Road	22 10	
Terrace, roads and streets	33 70	
Usk–Vanarsdol Road	28 10	
Government Wharf, Prince Rupert	167 50	
General—Office-work	430 00	
		1,809 20
Similkameen—		
Fairview–Penticton Road	$ 484 80	
Granite Creek	295 70	
Jura Station–Baker Hill Road	526 30	
		1,306 80
Slocan—		
Edgeware–Vernon Road	$4,460 00	
Graham's Landing	646 00	
Slocan City–Silverton	1,382 00	
		6,488 00
South Okanagan—		
Cawston Subdivision	$ 173 00	
Glenmore Subdivision	482 30	
Kelowna–Naramata	8,289 83	
K.L.O. Road	330 90	
Trepanier Creek	633 45	
		9,909 48
Trail—		
Nelson–Balfour Road	$ 72 25	
Pend d'Oreille River Road	47 50	
Trail–Castlegar	35 10	
		154 85

LOCATION OF ROADS—*Continued.*

Yale—		
Agassiz Road	$1,290 29	
Basque Mines–Hammond Spur	67 65	
Brookmere–Thalia	887 48	
Hope–Princeton	291 90	
Hope–Rosedale Road	286 16	
Spences Bridge–Ashcroft	3,713 03	
Railway crossings, Fraser River	5,308 80	
		$ 11,845 31
General—Supervision, office-work, and supplies		1,040 11
Total		$ 66,097 19

WHARVES.

Atlin—Stewart		$ 3,721 90
Cowichan—Cowichan Bay		3 75
Esquimalt—Sooke Float survey		36 00
Islands—Ganges		9 48
Kaslo–Howser Lake		413 72
North Vancouver—		
Gibson's Landing	$ 33,47	
Hopkins Landing	17 37	
Spring Cove	39 76	
		90 60
Prince Rupert—		
Bella Coola	$ 2,892 70	
Cow Bay Launch Harbour	315 50	
Queen Charlotte City	108 50	
Prince Rupert	37,299 82	
		40,616 52
Revelstoke—Hall's Landing		9 65
Similkameen—Dog Lake		105 45
Generally		1,062 74
Total		$ 46,069 81

ROAD MACHINERY.

Alberni	$ 3,525 54
Atlin	221 80
Cariboo	6,895 29
Chilliwack	1,040 78
Columbia	7,468 67
Comox	5,913 85
Cowichan	1,333 55
Cranbrook	4,512 56
Delta	10,229 08
Dewdney	3,291 24
Esquimalt	7,584 47
Fernie	2,764 66
Fort George	13,780 30
Grand Forks	4,981 30
Islands	2,398 50
Kamloops	11,339 58
Kaslo	6,442 88
Lillooet	2,366 50
Newcastle	1,872 44
North Okanagan	9,687 24

ROAD MACHINERY—*Continued.*

North Vancouver		$ 881 85
Omineca		4,774 48
Prince Rupert		247 50
Richmond		2,795 70
Similkameen		1,098 65
Slocan		1,633 90
South Okanagan		2,990 03
Trail		3,228 68
Yale		10,766 03
Mechanical Superintendent, travelling expenses		1,157 68
General		151 33
Total		$ 137,376 06
By credit, refund sales tax		206 50
Total		$ 137,169 56
Expenditure	$136,161 56	
Transferred from Richmond Roads	1,008 00	
Total	$137,169 56	

MAINTENANCE AND UPKEEP OF LAUNCH "I'LL AWAY."

Maintenance and upkeep of Launch "I'll Away"	$ 2,467 12

CONTINGENCIES.

Printing, stationery, blue-prints, etc.	$ 11,700 53

Subsidies and Maintenance, Steamboats, Ferries and Bridge-tenders.

(VOTE 252.)

Ferry—Agassiz–Rosedale	$ 12,636 65
" Alexandria	2,249 40
" Barnston Island	727 63
" Big Bar	2,881 01
" Birch Island	826 49
" Blackpool	1,040 13
" Braeside	1,399 53
" Briscoe	200 92
" Castlegar	2,917 82
" Cedarvale	963 93
" Chinook Cove	965 45
" Clearwater Crossing	1,198 65
" Copper City	279 40
" Donald	78 68
" Ducks	877 90
" Dunster	1,147 62
" Fort St. James	1,129 37
" Francois Lake	11,932 65
" Goldstream	290 64
" Gravell's (Quesnel River)	765 75
" Hall's Landing	1,570 03
" Harrison–Chilliwack	1,000 00
" Hazelton	516 70

STEAMBOATS, FERRIES, AND BRIDGES—*Continued.*

Ferry—High Bar	$	2,708 95
„ Horsefly–Woodjam		1,220 10
„ Hulatt		894 19
„ Indian Reserve No. 3 (or Miworth)		1,439 27
„ Kelowna–Westbank		4,294 02
„ Kitsault River		462 95
„ Kitwanga		1,298 40
„ Kootenay River, Reclamation Farm		1,618 55
„ Ladner–Woodward		48,293 02
„ Lewis (Kootenay River)		63 00
„ Lytton		903 50
„ Mission		24,708 25
„ Mount Olie		1,043 52
„ MacAlister		4,780 69
„ McBride		1,361 42
„ McClure		1,278 31
„ Nass River, Grease Harbour		492 50
„ Nelson		8,201 00
„ Pacific Skeena River		833 71
„ Parson, Columbia River		688 54
„ Peace River, Cutbank		83 56
„ Quesnel, Fraser River		2,796 86
„ Remo		1,539 13
„ Summerland–Naramata		2,539 42
„ Soda Creek		1,389 38
„ Sorrento–Scotch Creek		11,125 54
„ Sturgeon Point, Stewart River		436 88
„ Takla Lake		200 00
„ Terrace		3,089 99
„ 20-Mile Post above Lillooet (or Pavilion)		900 00
„ Usk		7,003 46
„ Vaveuby		964 82
„ Vinsulla		913 54
Bridge-tenders—Canoe Pass		720 00
„ Eburne Bridge		1,080 00
„ Kamloops (2)		540 00
„ Pitt River		1,680 00
„ Pritchard		20 00
Steamboat subsidy—Arrow Lake, N.E. Arm		2,919 00
„ Dog Lake		1,250 00
„ Shuswap Lake (Upper)		4,129 37
„ Shuswap Lake (Little)		1,400 00
Contingencies—Supplies for various ferries		151 37
Total	$	201,052 56

Special Warrants.

SPECIAL WARRANT NO. 5—"HIGHWAY ACT AMENDMENT ACT," RE RULE OF THE ROAD.

Printing and advertising		$ 1,899 67

SPECIAL WARRANT NO. 34.—RELIEF WORK.

Comox—Victoria–Campbell River Road		$ 511 00
Cowichan—		
Glenora	$ 167 25	
Indian	370 75	
Miller	59 50	
Waters	182 00	
Tools, etc	10 55	
		790 05
Dewdney—Hatzic Prairie Road		1,368 39
Esquimalt—		
Colwood Road	$ 88 60	
Goldstream	1,677 50	
Malahat	4,296 51	
Millstream	631 63	
Sooke	1,109 85	
Sooke River Road	255 65	
Vancouver Island Trunk Road	3,526 18	
		11,585 92
Islands—		
Beacon Avenue	$3,208 93	
Birch Road	1,033 62	
Breed's Cross Road	1,078 70	
Centre Road	537 71	
Chalet Road	65 50	
Downey Road	107 75	
East Road	5,012 16	
Fifth Street	100 70	
Hjorth's Cross Road	381 26	
Meadlands Road	10 50	
School Cross Road	80 00	
West Road	726 87	
Tools	3 25	
		12,346 95
Kamloops—		
Chase–Kault–Salmon Arm	$2,903 19	
Chase Town Roads	571 48	
Kamloops–Savona	4,969 88	
Shuswap–Chase	311 70	
		8,846 25
Newcastle—		
Berks	$2,420 00	
East Wellington	1,220 75	
Holden–Corso	2,208 58	
Jingle Pot Road	1 00	
South Wellington	6,569 48	
Waterloo	1,415 21	
Plant and tools	544 67	
Supervision	71 79	
		14,451 48
North Okanagan—Vernon City and District		881 00

SPECIAL WARRANTS—*Continued.*

Slocan—		
Sandon Town	$ 61 75	
Slocan River	80 44	
		$ 142 19
Trail—Nelson–Balfour		5,285 94
Yale—Spence's Bridge–Merritt		723 18
Total		$ 56,932 35

Mines Development Act.

(Chap. 43, 1916.)

VOTE 205.

Alberni District.

Road—Black Prince–Cascade Creek	$ 3 25
„ Millington Group	353 00
„ Saucy Lass Group–Ucluelet	649 87
„ White Group–Deer Creek	361 87

Atlin District.

Road—Bayview Mine–Stewart	2,000 00
„ Bitter Creek	799 44
„ Fourth of July Creek	1,308 82
„ Leslie–Rainbow Mine	500 00
„ Salmon River	17,968 29
Trail—Grey Copper	150 00
„ George Copper	500 00
„ Illiance	639 60
„ Sunshine Group	150 00
„ Telegraph–Dease	500 00

Cariboo District.

Road—Antler–Cunningham	83 75
„ Antler Creek–McConnel's	1,497 70
„ Barkerville–Antler Creek	948 07
„ Cunningham Creek	197 10
Trail—Barkerville–Keithley	985 95
„ Black Creek–Forks	100 50
„ Cottonwood–Willow River	500 00

Chilliwack District.

Road—Lucky Four Claim–Jones Creek	500 00

Columbia District.

Road—Canoe River–Kimbasket Lake	298 90
„ Horsethief–McDonald Creek	375 50
„ Lead Queen Mine	348 30
„ Paradise Mine	1,353 08
„ Tatler Group	105 67
Road—Toby–Dragon Slide	1,248 62
„ Toby Creek–Mineral King	192 96
Trail—Bugaboo	198 50
„ Crystal Creek	402 00

MINES DEVELOPMENT ACT—*Continued.*

Columbia District—Continued.

Trail—Lake Maye	$	501 00
„ North Fork of Spillimacheen River		218 50

Cowichan District.

Trail—Silver-mine	199 90

Cranbrook District.

Road—Federal Group–Skookumchuck	293 70
„ Kimberley–North Star Mine	766 75
„ Tunnel	325 50
Trail—French Creek	28 70
„ Perry Creek	249 75
„ West Fork of St. Mary River	1,137 70

Esquimalt District.

Road—Sunloch Mine	250 00

Fernie District.

Trail—Wild Horse	158 00

Fort George District.

Road—Reliance Mine	1,913 50
„ Rocky Mountain Portage	1,000 00

Grand Forks District.

Road—Pass Creek–Rock Candy	5,000 00

Greenwood District.

Road—Lightning Peak	623 75
„ Wellington Mine	76 50
Trail—Skylark	96 50

Kamloops District.

Road—Copper King–McLeod Group	936 25
„ Newhykulston Creek	650 00
Trail—Mount Olie–3-Mile Creek	395 80

Kaslo District.

Road—Cork-Province–Silver Bell–Silver Bear	290 85
„ Florence–Princess Creek	355 25
„ Helen–Boulder Group	1,000 50
„ Iva Fern Group	199 87
„ Lyle Creek–Fletcher Group	63 00
„ No. 1 Mine–Skyline Mine	296 00
„ Old Argenta Mine	302 25
„ Utica Mine	370 08
Trail—Bismark	185 25
„ Black Bear	150 00
„ Bullock	446 50
„ Campbell Creek	297 97
„ Cultus Creek	750 00
„ Tapanilas Claim	99 00
„ Wagner Group–Healey Creek	280 75

Lillooet District.

Trail—Bridge River Canyon–Baldy Mountain	135 00
„ Tonis Bridge–Hell Creek	184 50

MINES DEVELOPMENT ACT—*Continued.*

	North Vancouver District.	
Trail—Mamquam River	$	200 00
„ Tranquille		152 00
	Omineca District.	
Road—Big Four Group		250 00
„ Cronin		3,411 25
„ Hudson Bay Mountain		889 25
„ Silver Standard		2,499 34
Trail—Chicken Lake		1,092 30
„ Dahl's Siding–Empire Group		1,499 75
„ Driftwood Basin		2,000 00
„ Fort St. James–Manson Creek		800 00
„ McCabe		478 00
„ Ootsa–Tahtsa		1,551 75
„ Oregon Group		273 00
Bridge—Driftwood Basin		372 20
	Prince Rupert District.	
Trail—Baldwin Mine		500 00
„ Falls Creek–Goat Mountain		150 00
„ Kitnaiakwa		200 00
„ Oleander		400 00
	Revelstoke District.	
Trail—Beatrice Mine		216 13
„ Lanark Mine		225 00
„ Pool Creek		41 56
	Similkameen District.	
Road—Copper Mountain		316 00
„ Tulameen–Summit Camp		100 00
	Slocan District.	
Road—Anaconda Group		136 00
„ Bennett Group–Lemon Creek		97 75
„ Lightning Peak		3,142 00
„ Miner Boy		99 75
„ McAllister Mine		4,278 89
„ Sandon–Cody Diversion		900 00
Trail—Anna Group		235 89
„ Prough and Feney Claim		250 74
„ Rawhide		22 50
	Trail District.	
Road—Birdseye Mine		100 00
„ California Mine–Athabasca Mill		2,000 00
„ Gold Hill Group–49 Creek		1,607 50
Trail—Arnold Group		140 00
„ Aspen–Deer Creek		200 25
„ Bayonne–Sheep Creek		147 00
	Yale District.	
Road—B.C. Silica and Talc Co. Mine		1,164 25
„ Emancipation Mine		471 04
„ Mary Reynolds–Stump Lake		200 00
Total	$	88,091 15

Capital Account.

VOTE 260—BRIDGES.

Cariboo—Deep Gulch, Quesnel–Fort George		$ 2,003 84
Fort George—		
Sturgeon Point	$ 8,695 93	
Beaver Creek	8,115 67	
Dunster	29,837 85	
		46,649 45
Kamloops—Pritchard		729 35
Omineca		12,000 00
Total		$ 61,382 64
Expenditure	$60,342 14	
Transferred from Fort George District	1,040 50	
Total	$61,382 64	

VOTE 274—MAIN HIGHWAYS, INDUSTRIAL, AND SETTLEMENT ROADS.

Alberni—		
Canadian Highway	$ 1,735 78	
Island Highway	2,501 80	
		$ 4,237 58
Columbia—Main Trunk (east)		2,116 18
Comox—Hardy Bay–Coal Harbour	$ 10,972 26	
Merville Settlement	5,098 27	
West Side of Salmon River	374 21	
		16,444 74
Delta—		
Ladner Trunk Road	$ 9,671 76	
Provincial Highway	35,475 98	
		45,147 74
Esquimalt—		
Colwood–Parsons Bridge	$ 1,577 98	
Island Highway	8,106 65	
		9,684 63
Fort George—		
Ashcroft–Summit Lake	$ 18.626 55	
Blackwater–Stony Creek	1,526 20	
Fort George–Hazelton	14,346 88	
Fort George–Quesnel	988 23	
Fort George–Stony Creek	353 36	
Fort George–Summit Lake	667 48	
		36,508 70
Islands—		
Divide and Fulford	$ 1,423 19	
East Road	5,967 31	
Hill and Branford	3,081 82	
		10,472 32
Kaslo—		
Creston–Goatfell	$ 7,597 10	
Creston–Kuskanook	6,963 94	
Sirdar–Kuskanook	572 64	
		15,133 68
Nanaimo—Highland Highway		4,189 58
Omineca—		
Endako–Francois Lake	$ 1,692 25	
McDonald's Settlement	406 25	
White Settlement	250 00	
		2,348 50
Revelstoke—Revelstoke (west)		95,714 60
Richmond—Nos. 5 and 9 Roads		3,862 06

MAIN HIGHWAYS, INDUSTRIAL, AND SETTLEMENT ROADS—*Continued.*

Rossland—Rossland-Christina Lake		$ 2,397 96
Saanich—West Saanich		5,199 48
Similkameen—Osoyoos-9-Mile Creek		23,811 16
Slocan—New Denver-Three Forks		9,484 78
Trail—Thrums-Brilliant		11,103 78
Total		$ 297,857 47

"BRITISH COLUMBIA LOAN ACT, 1919."

Sec. 7 (a.)—Trunk and Main Roads.

Alberni—Island Highway		$ 95 86
Atlin—		
Alice Arm Shore Road	$ 3,080 71	
Big Mission Trail	70 00	
Salmon River Road	12,758 11	
Stewart-Hyder Road	357 20	
		16,266 02
Cariboo—		
Borland Hill	$ 703 50	
Cariboo Main	2,042 17	
Chilcotin Main	111 75	
Quesnel-Fort George	9,981 32	
		12,838 74
Chilliwack—		
Chilliwack River Road	$ 16 35	
Yale Road (paving)	16,624 05	
		16,640 40
Columbia—		
Canal Flat	$ 19 80	
Dutch Creek Diversion	10 85	
Main Trunk Road (east)	10,683 77	
		10,714 42
Comox—		
Hardy Bay-Coal Harbour	$ 1,710 94	
Merville Settlement	33 15	
West Side of Salmon River	23 91	
		1,768 00
Cranbrook—		
Cranbrook-Moyie	$ 6,630 40	
Cranbrook-Wardner	13,840 36	
Curzon-Kingsgate	3,783 52	
Eager Hill-Fort Steele	451 65	
Moyie-Goatfell	3,166 48	
		27,872 41
Delta—		
Hjorth Road	$ 900 00	
Ladner Trunk Road	36,014 15	
Provincial Highway	148,148 13	
		185,062 28
Dewdney—		
Clarke Road	$ 3,912 19	
Hatzic Prairie-Dewdney Road	132 78	
Ioco Road	243 47	
North Road	4,269 57	
		8,558 01
Esquimalt—		
Craigflower-Parsons Bridge	$ 36,530 43	
Island Highway	2,476 61	
		39,007 04

"BRITISH COLUMBIA LOAN ACT, 1919"—*Continued.*

Fernie—		
Elko–Jaffray	$ 1,088 37	
Fernie–Hosmer	290 75	
Fernie–Morrissey	4,803 12	
Fort Steele–Wasa	2,487 62	
Michel–Crowsnest	2,236 00	
Morrissey–Elko	6,252 52	
Wasa–Canal Flats	430 75	
		$ 17,589 13
Fort George—		
Hixon–Summit Lake	$ 323 82	
Fort George–Hazelton	726 50	
Prince George Land Settlement Area	230 25	
Vanderhoof Land Settlement Area	2,704 36	
		3,984 93
Greenwood—Rock Creek–9-Mile		2,843 53
Islands—Hill and Branford Road		539 01
Kamloops—		
Cause Road	$ 1,760 77	
City of Salmon Arm Trunk Road	654 34	
Creamery–Palmer's Corner	117 69	
Kamloops–Chase–Salmon Arm	1,854 19	
Kamloops–Falkland	12,709 08	
Strawberry Heights	130 50	
		17,226 57
Kaslo—		
Boulder Creek Bridge	$ 1 13	
Camp Lister Road	3,755 37	
Creston–Kuskanook	1,033 67	
Creston Settlement Area	7,287 95	
Kaslo–Ainsworth	3,168 62	
Rita Creek Bridge	1 14	
Sirdar–Kuskanook	2,232 50	
Tower Creek Bridge	1 13	
		17,481 51
Lillooet—		
Cariboo Main Road	$ 1,984 19	
North Fork	980 32	
		2,964 51
Nanaimo—		
Departure Bay	$ 30 50	
Five Acres	668 00	
Island Highway	4,664 18	
Old Victoria	35 00	
South Wellington	45 00	
Victoria–Campbell River	419 78	
		5,862 49
North Okanagan—		
Mara–Sicamous	$ 81 20	
Vernon–Kamloops	1,021 99	
Vernon–Kelowna	1,467 63	
Vernon–Salmon Arm	271 00	
		2,841 82
North Vancouver—		
Marine Drive	$ 292 85	
Robson Road	5,115 48	
		5,408 33

"BRITISH COLUMBIA LOAN ACT, 1919"—*Continued.*

Omineca—		
Main Fraser Lake	$ 20,959 49	
North Francois Lake	14,547 77	
		$ 35,507 26
Prince Rupert—Mexican Tom Road, Port Clements—Tlell		1,930 55
Revelstoke—Revelstoke West Road		9,116 94
Richmond—		
No. 3 Road, Lulu Island	$ 15,812 92	
Nos. 5 and 9 Roads	42,810 11	
		58,623 03
Rossland—Rossland-Christina Lake		9,090 46
Saanich—John Dean Road		72 40
Similkameen—		
Fairview-Penticton	$ 658 29	
Osoyoos-9-Mile Creek	61,891 21	
		62,549 50
Slocan—Edgewood-Vernon Road		304 53
South Okanagan—Kelowna-Vernon Road		5,539 50
South Vancouver—		
Kingsway (paving)	$ 51,503 25	
River Road	17,383 68	
		68,886 93
Trail—Thrums-Brilliant Road		477 50
Yale—		
Fraser Canyon Route	$ 1 15	
Hope-Rosedale	3,206 54	
Hope-Spences Bridge	36 30	
Nicola-Kamloops	5,303 82	
1-Mile Road	14,780 84	
		23,328 65
General engineering		2,296 65
Total		$ 673,288 91
By refund, Dominion Government, account expenditure, 1919-20, under "Canada Highways Act"		53,770 32
Total		$ 619,518 59

"HIGHWAY LOAN ACT, 1920."

Alberni—		
Canadian Highway	$ 894 35	
City of Alberni	364 89	
Island Highway	1,317 11	
Port Alberni	624 19	
Qualicum Settlement	445 22	
		$ 3,645 76
Atlin—Alice Arm Shore Road		46 40
Cariboo—		
Cariboo Main Trunk	$ 764 51	
Chilcotin Main	943 10	
Quesnel-Fort George	6,425 66	
		8,133 27
Chilliwack—Chilliwack River		712 56
Columbia—		
Dutch Creek Diversion	$ 9 47	
Findlay Creek Road	699 84	
Main Trunk Road	6,847 23	
Windermere North Diversion	8 50	
		7,565 04

"HIGHWAY LOAN ACT, 1920"—*Continued.*

Comox—		
Back Road	$ 18 00	
Comox and J. Hardy	87 75	
Courtenay–Comox	414 00	
Merville Land Settlement	13,989 55	
Port Hardy–Coal Harbour	21,918 39	
Victoria–Campbell River	335 93	
West Side of Salmon River	2,464 47	
		$ 39,228 09
Cranbrook—		
Cranbrook–Moyie	$ 470 61	
Cranbrook–Wardner	645 53	
Eager Hill–Fort Steele	636 46	
Moyie–Goatfell	19 23	
		1,771 83
Delta—		
Ladner Trunk Road	$ 3,455 59	
McLellan Road	1,500 00	
Old Yale Road	441 63	
Provincial Highway	93,773 45	
Scott Road	2,460 50	
		101,631 17
Dewdney—		
Clarke Road	$ 317 00	
Dewdney Trunk	814 32	
Hatzic Prairie	8 64	
Ioco Road	9,001 55	
North Road	4,734 28	
		14,875 79
Esquimalt—		
Colwood Hotel–Parsons Bridge	$ 1,485 11	
Island Highway	1,759 94	
Vancouver Island Trunk Road	1,946 32	
Plant and tools	17 20	
		5,208 57
Fernie—		
Elko–Morrissey	$ 1,022 00	
Fernie–Hosmer	716 75	
Hosmer–Michel	117 00	
Jaffray–Elko	25 49	
Michel–Crowsnest	285 87	
Morrissey–Fernie	329 25	
Wasa Trestle	6,626 49	
Wardner–Jaffray	185 00	
Waterton	327 90	
		9,635 75
Fort George—		
Ashcroft–Summit Lake	$ 11,306 52	
Blackwater–Stony Creek	28 45	
Cariboo Road	74 98	
Fort George–Hazelton	1,654 41	
Martin Lake Settlement	787 01	
Prince George Settlement	4,614 53	
Vanderhoof Settlement	10,870 90	
Material	4,536 51	
		33,873 31
Greenwood—		
Rock Creek–9-Mile	$ 2,556 30	
Rock Creek–Sidley	97 00	
		2,653 30

"HIGHWAY LOAN ACT, 1920"—*Continued.*

Islands—		
Hill and Branford	$ 343 75	
New Divide	820 56	
		$ 1,164 31
Kamloops—		
Blind Bay–Eagle Bay	$ 1,059 88	
Bunker	1,148 38	
Celista	2,957 37	
Chase–Kault	526 15	
North Thompson (east side)	1,410 88	
Salmon Arm Municipality	510 28	
Squilax–Anglemont	3,700 18	
Valley Road–Creamery–Palmer's Corner	4,059 08	
White Lake	837 86	
		16,210 06
Kaslo—		
Argenta–Bulmer Trail	$ 1,385 15	
Boswell–Kuskanook	2,020 22	
Boulder Creek Bridge	1,219 61	
Creston–Goatfell Road	2,133 36	
Creston–Kuskanook	15,829 23	
Creston Settlement Area	2,026 66	
Rita Creek Bridge	1,525 21	
Tower Creek Bridge	1,517 15	
		27,656 59
Lillooet—		
Cariboo Main	$ 3,506 15	
North Fork	3,900 93	
		7,407 08
Nanaimo—		
Chesterlee Street	$ 376 19	
Five Acres Road	976 03	
Hong Kong Culvert	328 34	
Island Highway	15,476 31	
Lambeth Subdivision	260 38	
Nichol Street	1,028 44	
South Wellington Road	430 38	
		18,876 07
North Okanagan—		
Deep Creek and branches	$ 589 32	
Kamloops	1,499 28	
		2,088 60
Omineca—		
Babine–Portage Trail	$ 270 00	
Bruce Settlement	101 25	
Colleymount Road	7,916 66	
East End–Ootsa	162 00	
Endako–Francois Lake	2,122 24	
Gushwa–Silverthorne Road	125 00	
Hamre Settlement	333 75	
Keefe's Landing–Ootsa Lake	249 25	
Kerr Settlement	210 50	
Lawson Settlement	47 99	
Main Fraser Lake Road	12,054 22	
Morden Settlement	15 35	
McDonald Settlement	400 16	
Neale Settlement	1,329 36	

"HIGHWAY LOAN ACT, 1920"—*Continued.*

North Francois Lake Road	$ 106 23	
Old's Settlement	15 75	
Pratt Settlement	236 50	
Readmont Settlement	342 00	
Short Settlement	158 00	
Telkwa Collieries	300 00	
Topley Settlement	420 00	
White Settlement	50 00	
		$ 26,966 21
Prince Rupert—Mexican Tom		7,004 26
Revelstoke—Revelstoke West Road		38,220 65
Richmond—		
Dyke Road	$ 3,575 09	
Nos. 5 and 9 Roads	19,066 15	
		22,641 24
Rossland—Rossland–Christina		66,582 72
Saanich—Richmond Hill		992 87
Similkameen—		
Fairview–Penticton	$ 2,202 94	
Osoyoos–9-Mile Creek	56,820 99	
Princeton Townsite	7 20	
		59,031 13
Slocan—		
Edgewood–Vernon	$ 9,013 38	
New Denver–Three Forks	10,330 08	
		19,343 46
South Okanagan—Kelowna–Vernon Diversion		3,432 62
Trail—		
Granite	$ 85 25	
Kootenay River	2,124 15	
Thrums–Brilliant	467 43	
Trail–Castlegar	3,007 23	
		5,684 06
Yale—		
Hope–Rosedale	$ 252 42	
Nicola–Kamloops	774 39	
1-Mile Road	15,458 73	
		16,485 54
General engineering		480 20
Total		$ 569,248 51

SUMMARY OF EXPENDITURE UNDER "CANADA HIGHWAY ACT."

Vote 274	$ 297,857 47
"British Columbia Loan Act, 1919"	673,288 91
"British Columbia Highway Act Loan Act, 1920"	569,248 51
Total	$1,540,394 89
Less proportion to be refunded by Dominion Government	367,833 35
Total	$1,172,561 54

Statement of Expenditure.

Vote 243. Salaries and expenses, Minister's Office		$ 10,676 68	
„ 244. Salaries and expenses, General Office		64,590 53	
„ 245. Maintenance of Parliament Building and Grounds		121,128 16	
„ 246. Maintenance of Government House and Grounds		20,790 11	
„ 247. Salaries and expenses, District Engineers		61,402 43	
„ 248. Salaries and expenses, Steam-boilers Inspection		54,715 74	
„ 249. Salaries and expenses, Electrical Energy Inspection		7,258 29	
„ 250. Salaries and expenses, Factories Inspector		8,569 80	
„ 251. Roads, trails, and streets	$1,494,473 57		
Bridges	504,798 97		
Location of roads	66,097 19		
Protection to river-banks	24,755 14		
Wharves	46,069 81		
Launch "I'll Away"	2,467 12		
Road machinery	137,169 56		
Miscellaneous	11,701 53		
		2,287,531 89	
„ 252. Subsidies and maintenance, Steamboats and Ferries		201,052 56	
Special Warrant No. 5—"Highway Act Amendment Act" *re* Rule of the Road		1,899 67	
Special Warrant No. 34—Relief-work		56,932 35	
Vote 205. "Mines Development Act," chap. 43, 1916		88,091 15	
			$2,984,639 36
Capital Account.			
Vote 260. Bridges		$ 61,382 64	
„ 274. Main highways, industrial and settlement roads		297,857 47	
			359,240 11
Capital Account. (Statutory Expenditures.)			
"Loan Act, 1919," sec. 7 (*a*)—Trunk and main roads		$ 619,518 59	
"Highway Loan Act, 1920—Trunk and main roads		569,248 51	
			1,188,767 10
Total			$4,532,646 57

TENDERS RECEIVED AND CONTRACTS AWARDED.

April 1st, 1920, to March 31st, 1921.

SCHOOLS.

Work and Tenderer.	Amount.	Remarks.
CANYON CITY—One-room addition:		
F. P. Rogers	$ 8,250 00	Not awarded.
COURTENAY—Eight-room:		
R. Moncrieff	45,398 00	Awarded.
Parfitt Bros.	49,269 00	
E. J. Ryan Contracting Co.	49,398 00	
Baynes & Horie	54,084 00	
ERRINGTON—One-room addition:		
Turley Bros.	2,794 00	Awarded.
L. C. Young	3,398 00	
T. Carson	3,987 00	
F. P. Rogers	5,200 00	
KILGARD—One-room:		
F. P. Rogers	3,899 00	Awarded.
Sloan & Harrison	4,500 00	
Croy & Ross	4,600 00	
W. L. Gooding	4,765 00	
J. W. Scott	5,180 00	
Simmons & Lloyd	6,286 85	
KITSUMGALLUM—One-room addition:		
T. Carson	6,100 00	Not awarded.
Macdonald & Beatty	7,416 00	
KITSUMGALLUM—Three-room addition:		
Douglas, Beatty & Greer	17,250 00	Awarded.
T. Carson	19,000 00	
MERRITT:		
T. Carson	36,400 00	Not awarded.
P. McLean	44,625 00	
NORMAL SCHOOL, VICTORIA—Blasting rock:		
Warren, Doran & Mouat, per cubic yard	3 00	Awarded.
Luney Bros., per cubic yard	3 50	
H. Macdonald, per cubic yard	3 95	
NORTH CEDAR—Three-room:		
E. J. Ryan Contracting Co.	14,800 00	Awarded.
Western Construction Co.	15,700 00	
POWELL RIVER—Two-room addition:		
T. Carson	17,987 00	Awarded.
Hodgson, King, & Marble	19,662 87	
Gooding & Hurn	22,522 00	
L. C. Stevens	27,475 00	
F. P. Rogers	21,875 00	Too late.
PROCTER:		
F. R. McCharles	7,250 00	Not awarded.
F. P. Rogers	8,250 00	
E. J. Ryan Contracting Co.	11,500 00	
RUTLAND:		
McDowell & Mann	6,852 00	Awarded.
C. Beck	7,118 00	
Dominion Plumbing & Heating Co.	7,428 00	
Murray Bros., Ltd.	7,594 00	

SCHOOLS—*Continued.*

Work and Tenderer.	Amount.	Remarks.
RUTLAND—*Continued.*		
Kamloops Plumbing & Heating Co.	$ 8,053 00	
Musgrave, Ltd.	8,250 00	
J. Galbraith	8,373 90	
J. H. Warner Co., Ltd.	9,442 00	
TECHNICAL SCHOOL, VANCOUVER—Alterations:		
T. Carson	9,487 00	Awarded.
Baynes & Horie	9,537 00	
E. J. Ryan Contracting Co., Ltd.	13,950 00	
Gooding & Hurn	13,976 00	
VANDERHOOF—Four-room:		
T. Carson	24,970 00	Awarded.
WOODS LAKE—Two-room:		
F. P. Rogers	13,651 00	Awarded.
W. A. Cyderman	22,100 00	

GOVERNMENT BUILDINGS AND GAOLS.

ASHCROFT—Repairs:		
J. W. Bye	$ 3,200 00	Not awarded.
Amalgamated Construction Co.	3,785 00	
Western Construction Co.	4,950 00	
FERNIE MINE-RESCUE STATION—Alterations and additions:		
R. A. Kerr	4,543 00	Awarded.
F. Wildman	4,874 00	
CLINTON LOCK-UP:		
Amalgamated Construction Co.	8,900 00	Not awarded.
Western Construction Co.	11,400 00	
FOREST RANGER'S HOUSE, SQUAMISH:		
E. J. Ryan Contracting Co.	4,180 00	Not awarded.
PRINCE RUPERT COURT-HOUSE:		
Building:		
R. Moncrieff	386,955 00	Not awarded.
Hodgson, King, & Marble	403,900 00	
Robertson & Partners, Ltd.	405,000 00	
Albert & McCaffery, Ltd.	426,477 60	
Heating:		
Orr Bros., Ltd.	17,895 00	
R. J. Nott	18,847 54	
Murray Bros., Ltd.	22,172 00	
Barr & Anderson, Ltd.	23,200 00	
Steen & Langwill	23,250 00	
McDowell & Mann	23,842 00	

FERRIES.

SHUSWAP LAKE:		
Arrow Lakes Lumber Co.	.....	Contract renewed.
KELOWNA–WESTBANK:		
C. H. James	$ 3,500 00	
A. J. Jones	3,500 00	
Hayman Bros.	4,000 00	Awarded.
SUMMERLAND–NARAMATA:		
Okanagan Lake Boat Co., subsidy	2,500 00	Awarded.
ARROWHEAD–BEATON:		
J. Fitzsimmons	.....	Contract renewed.

FERRIES—*Continued.*

Work and Tenderer.	Amount.	Remarks.
LADNER–FERRY LANDINGS:		
Boyd & Jackson	$ 15,748 10	Awarded.
W. Greenlees	15,982 00	
Pacific Construction Co.	16,000 00	
Fraser River Pile Driving Co.	16,822 02	
Vancouver Pile Driving & Constructing Co.	18,250 00	

ROADS.

SIRDAR–KUSKANOOK ROAD:		
N. Rawlings & Co.:		
(1.) On railway-grade, 3.06 miles, per mile $1,553	$ 4,752 00	Not awarded.
(2.) New construction, 2.60 miles, per mile $6,340	16,491 15	
Hodgson, King & Marble:		
(1.) On railway-grade, 3.06 miles, per mile $5,227	15,994 94	
(2.) New construction, 2.60 miles, per mile $14,760	38,375 65	
G. Maglio:		
(1.) On railway-grade, 3.06 miles, per mile	.....	No tender.
(2.) New construction, 2.60 miles, per mile	25,000 00	
ROSSLAND–CHRISTINA LAKE:		
T. J. McAlpine	70,686 00	Not awarded.
Cotton Co.	102,737 50	
Harrison & Lamond	7½ % on actual cost.	
OSOYOOS–9-MILE:		
Section 1:		
Salvous Bros.	88,203 00	
A. W. Davis	72,701 67	
M. P. Cotton Co.	Cost + 10%.	
Section 2:		
Salvous Bros.	61,821 00	
A. W. Davis	48,325 17	
M. P. Cotton Co.	Cost + 10%.	
Awarded to A. W. Davis on percentage basis.		
TRANS-PROVINCIAL HIGHWAY (SERPENTINE FLATS):		
Cotton Co.	135,068 00	Not awarded.
Palmer Bros.	138,503 55	
HARDY BAY–COAL HARBOUR ROAD:		
Harrison & Lamond	Cost + 7½ %.	Not awarded.
No unit prices given.		
Columbia Bitulithic, Ltd.	Cost + 15%.	
Unit Prices:		
(1.) Clearing, per acre	175 00	
(2.) Grubbing, per acre	325 00	
(3.) Excavation:		
(*a.*) Solid rock, per cubic yard	3 50	
(*b.*) Loose rock, per cubic yard	1 70	
(*c.*) Earth, per cubic yard	75	
(5.) Timber culverts, per lineal foot	40	
(*a.*) Logs, flattened (including ironwork)	.....	
(9.) Retaining-wall:		
(*a.*) Cedar cribbing (including iron) per lineal foot	2 50	
(*b.*) Rock, per cubic yard	6 50	
(11.) Corduroy, cross-waying, per square yard	2 50	
(16.) Handrails:		
(*a.*) Log, per lineal foot	30	
(17.) Surfacing (gravel), per cubic yard	3 40	
PACIFIC HIGHWAY:		
M. P. Cotton Co.	77,278 20	Awarded.
Palmer Bros.	97,110 55	
H. P. Peterson Construction Co.	105,820 15	
Harrison & Lamond	110,789 50	

ROADS—*Continued.*

Work and Tenderer.	Amount.	Remarks.
MARA LAKE ROAD:		
H. G. Barber	$ 45,261 00	Not awarded.
Robertson & Partners	38,224 65	
Harrison & Lamond	At fixed percentage of cost.	
Angus McDonnell	33,127 70	
KINGSWAY PAVING, SOUTH VANCOUVER:		
(a.) One-course Cement Concrete:		
Nickson Construction Co.	48,681 00	
Cotton Co., Ltd.	50,320 00	
Palmer Bros.	54,532 40	
(b.) Asphaltic Concrete on Cement Concrete Base:		
Cotton Co., Ltd.	50,670 00	Awarded.
Columbia Bitulithic	52,944 50	
Nickson Construction Co.	58,085 00	
Palmer Bros.	59,300 30	
LADNER TRUNK ROAD:		
Proposal A:		
Palmer Bros.	112,963 70	Awarded.
Nickson Construction Co.	116,728 70	
Proposal C:		
Palmer Bros.	103,197 34	
Columbia Bitulithic	103,906 70	
Cotton Co., Ltd. (no specifications submitted)	.....	
Revelstoke West Road:		
A. McDonnell	74,109 30 (Plus 10%.)	Awarded.
Rawlings & Labrash	95,167 18	
Greenlees & Boyd	121,372 58	
RIVER ROAD—Resurfacing:		
Harrison & Lamond:		
Flush-coating, per square yard	35	Awarded.
Crushed rock, per cubic yard	8 50	Awarded.
Cotton Co.:		
Flush-coating, per square yard	40	
Crushed rock, per cubic yard	12 00	
NOS. 5 AND 9 ROADS—Paving:		
Proposal A:		
Harrison & Lamond	36,940 50	Awarded.
M. P. Cotton Co.	46,680 50	
Columbia Bitulithic	51,305 00	
Palmer Bros.	45,645 00	
Proposal B:		
Harrison & Lamond	65,155 50	
M. P. Cotton Co.	75,017 00	
Proposal C No. 1:		
Harrison & Lamond	11,529 71	
M. P. Cotton Co.	12,040 00	
Proposal C No. 2:		
Harrison & Lamond	55,649 25	
M. P. Cotton Co.	60,751 00	

BRIDGES.

SALMON BELLY BRIDGE—Construction:		
Grand Forks Construction Co.	$ 3,130 50	Awarded.
La Brash & Rawlings	3,732 47	
McCharles & McDougall	3,889 00	

BRIDGES—*Continued.*

Work and Tenderer.	Amount.	Remarks.
Quotations for Timber required:		
Heaps & Sons	$ 1,580 00	Awarded.
Brunette Saw Mill Co.	1,645 80	
Timberland Lumber Co.	1,622 23	
HOPE SLOUGH BRIDGE:		
W. Greenlees	2,990 00	Awarded.
Fraser River Pile Driving Co.	4,076 00	
Ambrose & Aiken	4,315 00	
QUINSAM RIVER BRIDGE:		
R. Moncrieff	8,146 00	Awarded.
W. Greenlees	9,850 00	
Foundation Co.	12,285 00	

WHARVES.

PRINCE RUPERT WHARF EXTENSION:		
D. H. Morrison	$ 16,690 00	Awarded.

REPORT OF CHIEF INSPECTOR OF MACHINERY.

NEW WESTMINSTER, B.C., April 1st, 1921.

The Honourable the Minister of Public Works,
Victoria, B.C.

SIR,—In accordance with the provisions of the "Boilers Inspection Act," I have the honour to submit to you the Nineteenth Annual Report of the operation of the steam-boilers and machinery inspection service for the year ending March 31st, 1921.

The personnel of the service at present consists of the Chief Inspector, twelve District Inspectors, one clerk, one stenographer and filing and record clerk, and three stenographers, located as follows: Chief Inspector, four Inspectors, one clerk, one stenographer and filing and record clerk, and one stenographer and typist at the head office in New Westminster, including Districts A and E, one of the Inspectors being employed most of the time in District E; three Inspectors and one stenographer and typist in Victoria for District B; one Inspector in Nelson for District C; three Inspectors and one stenographer and typist in Vancouver for District D.

During the year the following changes of staff have taken place: Miss Archibald, typist and stenographer at the head office left the service on July 19th, 1920. Miss R. G. Eddy was appointed to fill the vacancy on July 26th, 1920. John O'Neill was appointed Inspector on September 8th, 1920, to fill the vacancy caused by the resignation of P. A. Goepel, Mr. Goepel having resigned on August 30th, 1919.

The following is a summary of the routine work performed in the office of the Chief Inspector during the year, exclusive of inspections, engineers' examinations, and the work of engineer surveying, details of which will be found in the reports of the Inspectors for the different districts and that of the Chief Engineer Examiner:—

Letters inward	6,935
Letters outward	8,473
Telegrams inward	49
Telegrams outward	45
Inspectors' monthly reports examined	144
New designs examined, calculated, and reported on	130
Amendments to designs examined, calculated, and reported on	49
Fees collected for designs	$790.00
Fees collected for infractions of Act	$300.00
Number of miles travelled by Chief Inspector	5,410

I have to report one boiler-explosion during the year. This occurred at about 8.15 a.m. on March 19th, 1921. The boiler, No. 30488-B.C., is owned by the Jewell Lumber Company and is located at their sawmill at Caithness. Two persons were slightly scalded.

The boiler is of the locomotive type, 48 inches in diameter, 16 feet 9 inches long. It was built by the Waterous Engine Works Company at Brantford in December, 1906, and was allowed a working-pressure of 120 lb. The nature of the explosion was as follows:—

The crown-sheet of the fire-box, which measures 50½ by 41½ inches, collapsed. The crown-sheet and the sides of the fire-box were supported by direct-screwed stays riveted over at each end in the usual manner. The sheet was forced off the whole of the crown-stays as well as most of the upper row of stays on the sides and fire-box end. The tube-sheet was also forced off the upper row of tubes, but fortunately the crown-sheet did not rupture, and on account of this the steam escaped more or less gradually through the stay-bolt holes, so that the only damage done was the blowing-down of the Dutch-oven walls, which were then below the fire-box.

The cause of the explosion was the overheating of the crown-sheet due to the shortness of water. The sheet first bulged between the stays until bending was sufficient to allow the stay-bolt heads to pass through the holes in the crown-sheet.

Our Mr. Sutherland was notified of the accident, and at once proceeded to Caithness to make a preliminary examination. The condition of the crown-sheet made it quite clear to him that the collapse was due to shortness of water. As both the engineer and fireman were positive

as to there being several inches of water showing in the glass just a few minutes before the explosion, he at once came to the conclusion that the water-glass was not in proper working-order. He had the water-glass cut, and upon unscrewing the bottom gland nut in the presence of the engineer and several other parties, he found that the glass had not been properly fitted. A rubber washer which should have been around the glass and above the recess in the fitting was found to be at the bottom of the recess, with the water-glass resting on the top of the rubber, thus almost entirely blocking the passage from the boiler to the water-glass. The glass was put in by Mr. Somerville about six weeks before the accident, and when first put in no doubt allowed, on account of the clean-cut hole in the washer, of the water passing back and forth from the boiler to the glass, but as the rubber deteriorated it spread over the opening in such a way as to act like a check-valve, allowing the water to pass from the boiler to the glass without much opposition, but when the level was falling in the boiler the pressure on the top of the rubber closed it down on the shoulder of the recess, thus closing the aperture. This would, of course, account for water showing in the glass just before the accident, while the crown-sheet was dry and red-hot.

The next point to which his attention was directed was the fusible plug. Why had it not melted and the noise of the escaping steam been detected by the engineer and fireman when they were so near the boiler? On examining the fusible plug it was found to have been made in such a way that it should never have been used for the purpose.

A properly constructed fusible plug is made in the following manner: The body is of brass, usually ¾ or 1 inch in diameter, about 2¼ inches long, having a hole through the centre ¾ inch on the inside and ½ inch on the outside. This taper hole is filled with tin having a melting-point of between 400° and 500° F. The plug should project about 1 inch into the water-space, so that before the crown-sheet is bare the cooling effect of the water on the plug is lost. After it gets below the inner end of the plug the fusible metal melts and steam at boiler-pressure escaping through the ½ inch gives the alarm and can be heard at considerable distance from the boiler.

A correct type of plug had been in use in the boiler, but the engineer had screwed it in from the inside instead of from the outside, the taper thus being the wrong way, the end of the plug projecting through the sheet a considerable distance and therefore becoming heated, and between the slight heating of the plug and pressure of steam on the small end of the taper the fusible metal was blown out on three occasions. The fusible plug in use at the time of the explosion was put in on December 28th. It was made by drilling a ½-inch hole part of the way down the plug and a 3/16-inch hole the remainder of the distance, and filled with fusible metal, the larger diameter of the metal being in the inside of the boiler. When the temperature of the plug raised to a point sufficient to melt the fusible metal, part of it was blown out through the small opening on the outside. There was, as usual, a certain amount of impurities in the fusible metal having a very high melting-point. This dross was driven into the small hole, stopping it up completely. This stoppage might also be assisted by a certain amount of scale, which might have been on the inside surface of the plug.

The large taper hole in a properly constructed fusible plug is for the purpose of ensuring that immediately the fusible metal commences to melt, the whole of it, with any impurities that may have been adhering to the inner surface of the metal, shall be blown out.

The number of accidents to persons and machinery are fully set forth in the District Inspectors' reports.

It will be noted that there was one accident resulting in personal injury, not fatal. This accident occurred when the above-mentioned boiler exploded. The first and second engineers were slightly scalded.

Under "Summary of Defects," it will be seen that eleven safety-valves were found to be inoperative and eight overloaded. Sixty pressure-gauges were inoperative and 350 defective.

The number of new boilers built for British Columbia was 113 as compared with sixty-four the previous year; sixty-seven of these were built in British Columbia, nine built under inspection in Eastern Canada, nineteen built in Eastern Canada not under inspection, and twenty-eight built in the United States. Of these, 113 were put in operation during the year, the remainder being held in stock.

The number of second-hand boilers imported was twenty-seven; from Eastern Canada twenty-three, as compared with eleven during the previous year; and four from the United States, as compared with six of the previous year.

Boilers inspected for the first time during the year number 128; twenty-one were taken out of service, being condemned as unfit for further use.

The total number of boilers now on our books is 6,224. Of these, 2,840 were inspected internally and externally, forty-one internally only, and 354 were inspected externally only.

The number of plates tested during the year was 259, as compared with 389 the previous year. Three plates were rejected as unfit for use in boiler-construction, as compared with seven the previous year.

In addition to the usual work of this office, we have during the year undertaken extra work as follows: Supervised repairs on Ladner–Woodward, the Mission–Matsqui, and Agassiz–Rosedale Ferries; supervised repairs and operation in connection with steam plants in Government buildings; and carried on inspections for the Workmen's Compensation Board. The summary of inspections and safety orders made is attached hereto.

Appended you will find a summary of the total work done by all of the District Inspectors as well as their separate reports, together with a summary of the work done for the Workmen's Compensation Board.

In conclusion, I desire to thank you for your active interest in support of this office, and also to thank the members of the staff for the efficient manner in which they carried out their work during the year.

Trusting this report will meet with your approval,

I have, etc.,
JOHN PECK,
Chief Inspector.

SUMMARY OF TOTAL WORK DONE BY DISTRICT INSPECTORS FOR YEAR ENDING MARCH 31ST, 1921.

Number of boiler-plates inspected	259
" boiler-plates rejected	3
" boilers built under Inspector's supervision in British Columbia	67
" boilers inspected built under inspection in Eastern Canada	9
" boilers inspected built in Eastern Canada not under inspection	10
" new boilers inspected built in United States	28
" new boilers inspected built in British Columbia	20
" new boilers inspected (total)	113
" boilers imported from Eastern Canada (second-hand)	23
" boilers imported from United States (second-hand)	4
" boilers unclassified	28
" first inspections	128
" inspections, external and internal	2,840
" internal inspections only	41
" external inspections only	354
" special inspections after repairs	53
" visits in addition to inspections	803
" boilers subjected to hydrostatic test	2,847
" boilers on which pressure was reduced	93
" boilers unsafe without extensive repairs	67
" boilers repaired under Inspector's directions	63
" boilers considered unfit for further use	7
" accidents to engines and boilers	10
" accidents resulting in personal injury (not fatal)	1
" investigations	8
" inspections completed	3,109
Total horse-power of boilers inspected	242,407.86
Number of defects observed as per summary	2,170
Number of defects considered dangerous	146
Inspection fees earned	$34,455.20
Inspection fees collected	$33,685.80
Miles travelled by the Inspectors	58,379

SUMMARY OF WORK DONE BY DISTRICT INSPECTORS—*Continued.*

Letters inward	5,715
Letters outward	7,885
Telegrams inward	50
Telegrams outward	53
Boilers taken out of service	21

SUMMARY OF TOTAL DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves inoperative	11	8
Boilers with safety-valves overloaded	8	2
Boilers with safety-valves defective in construction	25	3
Boilers without pressure-gauges	6	1
Pressure-gauges inoperative	60	24
Pressure-gauges defective	350	9
Cases of insufficient staying or bracing	7	2
Cases of defective stays	27	1
Cases of broken rivets	3	..
Cases of defective riveting	36	..
Cases of broken stays or braces	86	6
Cases of loose stays or braces	15	..
Boilers damaged by low water	6	2
Defective settings	117	12
Boilers with fractured plates	48	13
Boilers with burned plates	7	1
Boilers with blistered plates	13	1
Cases of sediment on fire-sheets	52	4
Cases of internal corrosion	115	..
Cases of scale or encrustation	153	8
Cases of internal grooving	13	..
Cases of external corrosion	124	1
Cases of defective tubes	92	5
Cases of defective feed-water arrangement	24	..
Cases of broken feed-valves	36	..
Serious leakage around tube-ends	85	1
Serious leakage in rivet-joints	18	..
Defective blow-off pipes or cocks	48	10
Defective water-gauges	31	8
Broken blow-off pipes or cocks	15	2
Water-columns without blow-outs	10	2
Cases of broken test-cocks	278	..
Connections to water-columns without valves	6	..
Neutral sheets not stayed	9	7
Furnaces out of shape	10	..
Boilers without fusible plugs	15	..
Boilers low at front end	69	..
Cases of serious leakage of fittings	41	2
Number of hand-holes, doors having bolts and dogs burned off	4	..
Defects in engines	14	4
Boilers without hand-holes	1	..
Boilers without stop-valves	7	..
Cases of defective steam-pipes	17	1
Unclassified defects	66	4
Totals	2,178	144

JOHN PECK.
Chief Inspector of Steam-boilers.

Report of the Chief Examiner.

NEW WESTMINSTER, B.C., April 1st, 1921.

The Honourable Minister of Public Works,
Victoria, B.C.

SIR,—I have the honour to submit to you the following report with respect to examinations of candidates for engineers' certificates for the year ending March 31st, 1921:—

During the year I have received 1,192 applications for examination for the different grades of certificates.

On March 31st, 1920, I had on hand 177 applications, making a total of 1,369. Of these, 1,027 have been examined; 174 applicants have had their fees returned, as their testimonials did not show the necessary service qualifications required by the Act. This leaves on the "Accepted for Examination" file 168 application forms.

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
First	7	3	4
Second	57	32	25
Third	233	155	78
Fourth	409	294	115
Special logging-donkey	120	98	22
Special creamery	9	8	1
Special heating	55	52	3
Special Doukhobor	2	2	..
Special road-roller	3	3	..
Special threshing	1	1	..
Temporary	131	131	..
Totals	1,027	779	248

Examination fees collected by Chief Inspector	$3,555 00
Examination fees collected by other Inspectors	207 50
Duplicate certificate fees	67 50
Total	$3,830 00

Trusting this report will meet with your approval,

I have, etc.,
JOHN PECK,
Chief Inspector.

Workmen's Compensation Board.

SUMMARY OF INSPECTIONS AND SAFETY ORDERS FOR THE YEAR ENDING MARCH 31ST, 1921.

Inspector.	No. of Inspections.	No. of Safety Orders.	Special.
District A—			
J. D. Kay	2	4	..
A. S. Bennett	34	85	..
J. B. Tait	46	158	2
Jas. Davidson	25	56	..
District B—			
S. Baxter	40	164	..
J. Clark	97	461	..
L. Duckitt	13	82	..

SUMMARY OF INSPECTIONS AND SAFETY ORDERS—*Continued.*

Inspector.	No. of Inspections.	No. of Safety Orders.	Special.
District C—			
A. Sutherland	47	325	..
District D—			
G. O. Madigan	8	67	..
F. Bath	17	62	..
F. Biggam	20	48	1
J. O'Neill	12	31	..
Totals	361	1,543	3

Senior Inspector's Report, District A.

NEW WESTMINSTER, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit herewith my annual report for the year ending March 31st, 1921.

During the year my work has been mostly confined to the routine of the head office; engineers' examinations; examining and figuring designs for new boilers and fittings; and attending to work of other departments, such as ferries, launches, and public buildings.

The design-work has been considerably augmented by the submitting of drawings of air-tanks and other pressure-vessels for approval to comply with the Workmen's Compensation Board requirements. In the ensuing year this work will be greatly increased owing to all existing designs having to be resubmitted for approval under the "Interprovincial Regulations."

Engineers' examinations were held monthly and occupied all of the first week in each month. Work for other departments, such as ferries, launches, and public buildings, absorbed 20 per centum of my time.

Three investigations were held during the year. A reported defective fly-wheel turned out to be a false alarm, as the fly-wheel was found to be perfectly sound. The second one was the wrecking of the main engine at the Bucklin Lumber Company's mill. The bolts in the connecting-rod end parted, allowing the piston to strike the head, thereby smashing the latter and generally wrecking the engine.

The third investigation was into the cause of the bursting of a fly-wheel at Thurston & Flavelle's mill at Port Moody. This was on a Corliss engine, which was greatly overloaded. In an endeavour to make the engine stand up to the work a former engineer had removed the steel knock-off cams and replaced them with shorter ones made of friction-paper. These had in time worn still shorter, so that at no load and the governor at its highest position the pick-up block could still engage with the valve-lever. While the main belt remained intact, the friction load of the mill was sufficient to hold the engine down to a reasonable speed, but when the belt broke, as happened on this occasion, sufficient steam was admitted to the cylinder to cause excessive acceleration of the engine and consequent bursting of the wheel. Though the material damage in the two latter cases was very considerable, luckily no one was injured.

Appended is further details of the work done.

Trusting this report meets with your approval,

I have, etc.,
JOHN D. KAY,
Senior Inspector, District A.

REMARKS.

Held general examinations every month and special examinations at intervals.

SUMMARY OF WORK DONE IN DISTRICT A FOR YEAR ENDING MARCH 31ST, 1921.

Number of drawings and specifications calculated for new boilers	167
„ investigations	3
Inspection fees collected	$17.75
Miles travelled by the Inspector	875
Letters inward	In head office
Letters outward	„
Telegrams inward	„
Telegrams outward	„

WORK DONE FOR OTHER DEPARTMENTS.

Work in connection with the ferry-boats "Beaver," "Eena," and "John H. Sprott," 37 days; inspecting launches, etc., for other departments, 8 days; time spent in designing apparatus for coal and ash handling at Royal Columbian Hospital, 7 days; total time, 52 days. Investigations for the Workmen's Compensation Board, 2.

JOHN D. KAY,
Senior Inspector of Steam-boilers, District A and Head Office.

Inspector's Report, District A (South).

NEW WESTMINSTER, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit my report for the year ending March 31st, 1921.

I am pleased to say that no explosions of boilers or any serious accidents have occurred in my district during the year.

When not employed in the office on the examination of candidates for engineers' certificates or other office-work, I have been out on boiler inspections, where each plant was also inspected by me under the the Workmen's Compensation Board, and, generally speaking, I have found the managers quite willing to carry out "safety" orders for the better protection of the workmen.

Trusting the enclosed report will meet with your approval,

I have, etc.,
A. S. BENNETT,
Inspector, District A (South).

SUMMARY OF WORK DONE IN DISTRICT A (SOUTH) FOR YEAR ENDING MARCH 31ST, 1921.

Number of drawings and specifications calculated for new boilers	2
„ boilers unclassified	3
„ first inspections	1
„ inspections, external and internal	248
„ external inspections only	1
„ visits in addition to inspections	54
„ boilers subjected to hydrostatic test	231
„ boilers on which pressure was reduced	8
„ inspections completed	250
Total horse-power of boilers inspected	19,607
Number of defects observed as per summary	221
Number of defects considered dangerous	8
Inspection fees earned	$2,773.91
Inspection fees collected	$2,500.61
Miles travelled by the Inspector	3,899
Letters outward	422
Telegrams outward	1

WORK DONE FOR OTHER DISTRICTS.

I inspected two boilers at Powell River for District D and collected the fees.

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves defective	7	..
Pressure-gauges defective	55	..
Cases of defective riveting	3	..
Cases of broken stays or braces	1	..
Cases of loose stays or braces	2	..
Defective settings	13	..
Boilers with blistered plates	2	..
Cases of sediment on fire-sheets	1	..
Cases of internal corrosion	12	..
Cases of scale or encrustation	6	4
Cases of external corrosion	15	..
Cases of defective tubes	9	..
Cases of defective feed-water arrangement	5	..
Serious leakage around tube-ends	9	..
Defective blow-off pipes or cocks	8	1
Defective water-gauges	6	..
Broken blow-off pipes or cocks	8	..
Water-columns without blow-outs	1	1
Cases of broken test-cocks	39	..
Boilers without fusible plugs	1	..
Boilers low at front end	2	..
Cases of serious leakage of fittings	6	..
Defects in engines	2	..
Cases of defective steam-pipes	2	..
Unclassified defects	6	2
Totals	221	8

A. S. BENNETT,
Inspector of Steam-boilers, District A (South).

Inspector's Report, District A (North).

NEW WESTMINSTER, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit to you my report for the year ending March 31st, 1921.

One boiler was considered unfit for further service, otherwise the different plants were found to be generally in a satisfactory condition.

There were three accidents to engines, but in no instance was there any one injured. In one case a fly-wheel burst. A full account of this accident is given by the Senior Inspector.

One accident was caused by the piston-rod breaking where it screws into the cross-head. The cylinder was badly cracked and therefore condemned.

The third accident was caused by the breaking of a bolt holding the crank-pin brasses. The damage was not extensive, but the management decided to install a larger engine.

In addition to the usual inspection of boilers, I made a number of inspections for the Workmen's Compensation Board and found the management generally willing to co-operate in the endeavour to prevent accidents.

Trusting this report meets with your approval,

I have, etc.,
J. B. TAIT,
Inspector, District A (North).

SUMMARY OF WORK DONE IN DISTRICT A (NORTH) FOR YEAR ENDING MARCH 31ST, 1921.

Number of new boilers inspected built in United States	1
„ new boilers inspected (total)	2
„ boilers unclassified	1
„ first inspections	2
„ inspections, external and internal	290
„ special inspections after repairs	1
„ visits in addition to inspections	14
„ boilers subjected to hydrostatic test	278
„ boilers on which pressure was reduced	8
„ boilers repaired under Inspector's directions	1
„ boilers considered unfit for further use	1
„ accidents to engines and boilers	1
„ investigations	1
„ inspections completed	259
Total horse-power of boilers inspected	21,281
Number of defects observed as per summary	260
Number of defects considered dangerous	7
Inspection fees earned	$3,428.15
Inspection fees collected	$3,555.93
Miles travelled by the Inspector	6,744
Letters outward	255
Telegrams outward	1
Boilers taken out of service	1

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves inoperative	1	1
Boilers with safety-valves defective in construction	2	..
Pressure-gauges defective	43	5
Cases of broken stays or braces	48	..
Defective settings	13	..
Boilers with fractured plates	3	..
Cases of sediment on fire-sheets	12	..
Cases of internal corrosion	30	..
Cases of scale or encrustation	52	..
Cases of internal grooving	1	..
Cases of external corrosion	28	..
Cases of defective tubes	8	..
Cases of defective feed-water arrangement	2	..
Cases of serious leakage around tube-ends	1	..
Defective blow-off pipes or cocks	3	..
Water-columns without blow-outs	1	..
Cases of broken test-cocks	37	..
Boilers low at front end	6	..
Cases of serious leakage of fittings	7	..
Unclassified defects	7	1
Totals	305	7

REMARKS.

For remarks please *see* report. Accidents: One fly-wheel burst; one connecting-rod broke; cylinder replaced; one bolt on crank-pin brasses broke; cylinder cover and bearing broken. Larger engine installed.

J. B. TAIT,
Inspector of Steam-boilers, District A (North).

SUMMARY OF TOTAL WORK DONE IN DISTRICT A FOR YEAR ENDING MARCH 31ST, 1921.

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
First	7	3	4
Second	15	10	5
Third	76	56	20
Fourth	127	96	31
Special logging-donkey	33	31	2
Special creamery	5	4	1
Special heating	11	10	1
Special road-roller	1	1	..
Temporary	41	41	..
Totals	316	252	64

SUMMARY OF WORK DONE.

Number of drawings and specifications calculated for new boilers	2
" new boilers inspected built in United States	1
" new boilers inspected (total)	2
" boilers unclassified	4
" first inspections	3
" inspections, external and internal	538
" external inspections only	1
" special inspections after repairs	1
" visits in addition to inspections	68
" boilers subjected to hydrostatic test	509
" boilers on which pressure was reduced	16
" boilers repaired under Inspector's directions	1
" boilers considered unfit for further use	1
" accidents to engines and boilers	1
" investigations	4
" inspections completed	509
Total horse-power of boilers inspected	40,888
Number of defects observed as per summary	481
Number of defects considered dangerous	15
Inspection fees earned	$6,202.06
Inspection fees collected	$6,074.29
Miles travelled by the Inspector	11,518
Letters outward	677
Telegrams outward	2
Boilers taken out of service	1

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves inoperative	1	1
Boilers with safety-valves defective in construction	9	..
Pressure-gauges defective	98	5
Cases of defective riveting	3	..
Cases of broken stays or braces	49	..
Cases of loose stays or braces	2	..
Defective settings	26	..
Boilers with fractured plates	3	..
Boilers with blistered plates	2	..
Cases of sediment on fire-sheets	13	..
Cases of internal corrosion	42	..

SUMMARY OF DEFECTS OBSERVED—*Continued.*

Nature of Defects.	Number.	Dangerous.
Cases of scale or encrustation	58	4
Cases of internal grooving	1	..
Cases of external corrosion	43	..
Cases of defective tubes	17	..
Cases of defective feed-water arrangement	7	..
Serious leakage around tube-ends	10	..
Defective blow-off pipes or cocks	11	1
Defective water-gauges	6	..
Broken blow-off pipes or cocks	8	..
Water-columns without blow-outs	2	1
Cases of broken test-cocks	76	..
Boilers without fusible plugs	1	..
Boilers low at front end	8	..
Cases of serious leakage of fittings	13	..
Defects in engines	2	..
Cases of defective steam-pipes	2	..
Unclassified defects	13	3
Totals	526	15

J. D. KAY,
A. S. BENNETT,
J. B. TAIT,
Inspectors of Steam-boilers, District A.

Senior Inspector's Report, District B.

VICTORIA, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit the following report for the general work done in this district for the past twelve months:—

During that period engineers' examinations were held monthly in Victoria, tri-monthly in Nanaimo, and as opportunity prevailed at the following places: Prince Rupert, Ocean Falls, Anyox, Prince George, and other points on the Grand Trunk Pacific Railway; also at Masset, on Queen Charlotte Islands, and at Courtenay, V.I.

Two hundred and fifty-three candidates were examined for the various grades of certificates; of those, 175 passed, while seventy-eight failed to secure sufficient marks to pass.

This office received 103 applications for examination besides those sent from head office; eighteen applied for re-examination, out of which total sixty-seven were approved. The examination fees so collected amounted to $207.50.

During the year I was called on to perform some special inspections, for which I received $288.95 from the companies to reimburse the outlay for travelling expenses and time involved.

During the year I covered 6,419 miles, earned $2,875.60, and collected $2,937.50.

Appended is a list of defects found at the various steam plants, giving nature and degree of danger.

Apart from the inspections already mentioned and for which fees were paid, I inspected for the Provincial Government eight steam-boilers of a total horse-power of 1,360, representing $132.85 in fees if same had been collected.

The following work was performed for District D: A large 72-inch by 18-foot boiler was supervised during construction and passed by me, as well as six copper steam-jacketed kettles. For District A I also looked after the workmanship and tested a similar number of copper kettles.

During the past year I made 237 inspections, 240 hydrostatic tests, and 135 visits to steam plants, etc., between the annual inspections.

Fortunately no serious accidents have occurred which require special comment and none causing personal injury have been reported.

On behalf of the Workmen's Compensation Board considerable attention was given to the survey of moving machinery to see that safeguards were provided, thus ensuring the greater safety of the workmen.

In conclusion, I would acknowledge the efficient and careful assistance of my two colleagues in carrying out the inspection-work of this district.

I have, etc.,
S. BAXTER,
Senior Inspector, District B.

ENGINEERS' EXAMINATIONS.

Number of applications for examinations	103
Number of applications for re-examination	18
Number of applications approved	67
Examination fees	$207.50

REMARKS.

Examinations held monthly in Victoria; tri-monthly in Nanaimo; as opportunity prevailed at Prince Rupert, Ocean Falls, Anyox, Hutton, Prince George, and other points on Grand Trunk Pacific Railway; also Masset and Courtenay.

SUMMARY OF WORK DONE IN DISTRICT B FOR YEAR ENDING MARCH 31ST, 1921.

Number of boiler-plates inspected	45
,, boiler-plates rejected	2
,, boilers built under Inspector's supervision in British Columbia	5
,, new boilers inspected built in British Columbia	5
,, boilers unclassified	5
,, first inspections	5
,, inspections, external and internal	233
,, external inspections only	4
,, special inspections after repairs	10
,, visits in addition to inspections	135
,, boilers subjected to hydrostatic test	240
,, boilers on which pressure was reduced	15
,, boilers unsafe without extensive repairs	2
,, boilers repaired under Inspector's directions	14
,, boilers considered unfit for further use	1
,, accidents to engines and boilers	2
,, investigations	1
,, inspections completed	237
Total horse-power of boilers inspected	17,995
Number of defects observed as per summary	178
Number of defects considered dangerous	15
Inspection fees earned	$2,875.60
Inspection fees collected	$2,889.50
Miles travelled by the Inspector	6,419
Letters inward	2,919
Letters outward	3,303
Telegrams inward	23
Telegrams outward	29
Boilers taken out of service	8

WORK DONE FOR OTHER DISTRICTS.

Supervised construction and tested a number of copper steam-kettles, also one 72-inch by 18-foot return-tube boiler for District D, as well as a number of copper kettles for District A.

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves defective in construction	4	2
Pressure-gauges defective	33	2
Cases of defective stays	2	..
Cases of broken stays or braces	2	1
Defective settings	18	3
Boilers with fractured plates	5	3
Boilers with burned plates	1	1
Cases of internal corrosion	2	..
Cases of scale or encrustation	3	..
Cases of external corrosion	11	1
Cases of defective tubes	3	..
Cases of broken feed-valves	1	..
Serious leakage around tube-ends	25	..
Defective blow-off pipes or cocks	5	..
Broken blow-off pipes or cocks	1	..
Cases of broken test-cocks	43	..
Boilers without fusible plugs	5	..
Boilers low at front end	2	..
Cases of serious leakage of fittings	9	1
Number of hand-holes, doors having bolts and dogs burned off	1	..
Defects in engines	2	1
Totals	178	15

S. BAXTER,
Inspector of Steam-boilers, District B.

Inspector's Report, District B.

VICTORIA, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit my report for the year ending March 31st, 1921.

During the year I inspected steam plants on Vancouver Island, Anyox, Nass River, Prince Rupert, and along the Grand Trunk Pacific Railway, where I found eighteen second-hand boilers which had been imported from other Provinces and were being used for sawmill purposes.

I also made a special visit to Anyox to inspect two B. & W. boilers and collected $128.70 for time and travelling expenses.

Three boilers were condemned due to age and general deterioration, and vertical boiler No. 20335-B.C. was condemned, due to the shell cracking at the edge of the double-riveted longitudinal lap-seam about the water-line, and which gave way under test.

I have also done considerable work for the Workmen's Compensation Board, inspecting plants for "safety devices" and small vertical boilers.

I append herewith a summary of work done, with defects noted, which I trust will meet with your approval.

I have, etc.,
L. DUCKITT,
Inspector, District B.

REMARKS.

Assisted with examinations in Victoria and held examinations in Nanaimo, Anyox, Prince Rupert, and at various points along the Grand Trunk Pacific Railway, details of which will be found in Mr. Baxter's report.

SUMMARY OF WORK DONE IN DISTRICT B FOR YEAR ENDING MARCH 31ST, 1921.

Number of boilers inspected built under inspection in Eastern Canada	3
" boilers inspected built in Eastern Canada not under inspection	2
" new boilers inspected built in United States	2
" new boilers inspected built in British Columbia	4
" new boilers inspected (total)	11
" boilers imported from Eastern Canada (second-hand)	18
" boilers unclassified	2
" first inspections	29
" inspections, external and internal	327
" external inspections only	32
" special inspections after repairs	1
" visits in addition to inspections	25
" boilers subjected to hydrostatic test	340
" boilers on which pressure was reduced	9
" boilers unsafe without extensive repairs	2
" boilers repaired under Inspector's directions	1
" boilers considered unfit for further use	4
" accidents to engines and boilers	1
" inspections completed	360
Total horse-power of boilers inspected	30,942
Number of defects observed as per summary	233
Number of defects considered dangerous	51
Inspection fees earned	$4,066.80
Inspection fees collected	$4,091.95
Miles travelled by the Inspector	7,778
Boilers taken out of service	4

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves overloaded	1	1
Boilers with safety-valves defective in construction	10	1
Pressure-gauges inoperative	23	21
Pressure-gauges defective	64	..
Cases of defective stays	3	1
Cases of broken stays or braces	6	1
Cases of loose stays or braces	1	..
Defective settings	19	2
Boilers with fractured plates	6	2
Boilers with burned plates	1	..
Cases of internal corrosion	19	..
Cases of scale or encrustation	15	4
Cases of internal grooving	1	..
Cases of external corrosion	12	..
Cases of defective tubes	13	1
Cases of defective feed-water arrangement	2	..
Serious leakage around tube-ends	2	..
Defective blow-off pipes or cocks	7	5
Defective water-gauges	9	8
Broken blow-off pipes or cocks	1	1
Cases of broken test-cocks	2	..
Connections to water-columns without valves	5	..

SUMMARY OF DEFECTS OBSERVED—*Continued.*

Nature of Defects.	Number.	Dangerous.
Neutral sheets not stayed	1	..
Boilers low at front end	6	..
Cases of serious leakage of fittings	1	1
Defects in engines	2	2
Cases of defective steam-pipes	1	..
Totals	233	51

REMARKS.

I inspected one boiler for the Provincial Government; the fees of $5 were not charged.

L. DUCKITT,
Inspector of Steam-boilers, District B.

Inspector's Report, District B.

VICTORIA, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit my report for the year ending March 31st, 1921.

My detailed report indicates that this has been a very busy year. It is to be noted that the major portion of my work was done in the northern part of the Province. In the Queen Charlotte Islands alone I inspected over sixty boilers. Industry is moving northward.

I am sure it would be a wise ruling if all vertical boilers with lap-seams had to have a test-slot cut in the seam. In two instances at least in the past year this precaution has prevented accident.

Some trouble has been experienced with the settings of some of the boilers at the various plants. At Ocean Falls the centre supports of the Badenhausen boilers were very badly damaged by the fire. A sufficient lining of firebrick had not been used.

The plant owned by the Whalen Pulp & Paper Company at Port Alice is, by a close co-operation between the engineering staff and the management, being put on an efficient footing.

It is to be noted that the bigger plants at least are giving close attention to economical steam production by the use of the various necessary apparatus for this purpose.

My monthly reports give a very closely detailed report of the various inspections and also of the arrangements for engineers' examinations which I have conducted or assisted with in Victoria and in the more remote places which our district looks after.

Much time and attention have been devoted to the safeguarding of points which in any way might prove a source of danger, and I venture to think that our efforts along this line are proving of very real worth.

I trust this report will meet with your approval.

I have, etc.,
JOHN CLARK,
Inspector, District B.

SUMMARY OF WORK DONE IN DISTRICT B FOR YEAR ENDING MARCH 31ST, 1921.

Number of boilers inspected built under inspection in Eastern Canada	1
„ new boilers inspected built in United States	2
„ new boilers inspected (total)	3
„ first inspections	2
„ inspections, external and internal	319
„ external inspections only, cast-iron boilers	12

SUMMARY OF WORK DONE IN DISTRICT B—*Continued.*

Number of special inspections after repairs	11
„ visits in addition to inspections	152
„ boiler subjected to hydrostatic test	302
„ boilers on which pressure was reduced	10
„ boilers unsafe without extensive repairs	37
„ boilers repaired under Inspector's directions	5
„ boilers considered unfit for further use	1
„ investigations	1
„ inspections completed	318
Total horse-power of boilers inspected	30,806
Number of defects observed as per summary	189
Number of defects considered dangerous	19
Inspection fees earned	$4,383.55
Inspection fees collected	$4,134.89
Miles travelled by the Inspector	11,629

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Pressure-gauges defective	53	..
Cases of defective stays	1	..
Cases of broken stays or braces	20	3
Boilers damaged by low water	1	..
Defective settings	12	6
Boilers with fractured plates	3	2
Boilers with burned plates	4	..
Boilers with blistered plates	8	..
Cases of sediment on fire-sheets	11	3
Cases of internal corrosion	5	..
Cases of scale or encrustation	16	..
Cases of external corrosion	2	..
Cases of defective tubes	14	2
Cases of defective feed-water arrangement	1	..
Serious leakage around tube-ends	5	..
Defective blow-off pipes or cocks	1	..
Defective water-gauges	3	..
Water-columns without blow-outs	1	1
Cases of broken test-cocks	17	..
Furnaces out of shape	1	..
Cases of serious leakage of fittings	2	..
Defects in engines	5	1
Cases of defective steam-pipes	2	..
Unclassified defects	1	1
Totals	189	19

REMARKS.

The above is a detailed report of my year's work.

JOHN CLARK,
Inspector of Steam-boilers, District B.

SUMMARY OF TOTAL WORK DONE IN DISTRICT B FOR YEAR ENDING MARCH 31ST, 1921.

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
Second	14	6	8
Third	67	39	28
Fourth	91	55	36
Special logging-donkey	14	8	6
Special creamery	1	1	..
Special heating	15	15	..
Temporary	51	51	..
Totals	253	175	78

SUMMARY OF WORK DONE.

Number of boiler-plates inspected	45
„ boiler-plates rejected	2
„ boilers built under Inspector's supervision in British Columbia	5
„ boilers inspected built under inspection in Eastern Canada	4
„ boilers inspected built in Eastern Canada not under inspection	2
„ new boilers inspected built in United States	4
„ new boilers inspected built in British Columbia	9
„ new boilers inspected (total)	14
„ boilers imported from Eastern Canada (second-hand)	18
„ boilers unclassified	7
„ first inspections	36
„ inspections, external and internal	879
„ external inspections only	48
„ special inspections after repairs	22
„ visits in addition to inspections	312
„ boilers subjected to hydrostatic test	882
„ boilers on which pressure was reduced	34
„ boilers unsafe without extensive repairs	41
„ boilers repaired under Inspector's directions	20
„ boilers considered unfit for further use	6
„ accidents to engines and boilers	3
„ investigations	2
„ inspections completed	915
Total horse-power of boilers inspected	78,743
Number of defects observed as per summary	600
Number of defects considered dangerous	85
Inspection fees earned	$11,325.95
Inspection fees collected	$11,116.34
Miles travelled by the Inspector	25,826
Letters inward	2,919
Letters outward	3,303
Telegrams inward	23
Telegrams outward	29
Boilers taken out of service	12

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves overloaded	1	1
Boilers with safety-valves defective in construction	14	3
Pressure-gauges inoperative	23	21
Pressure-gauges defective	150	2

SUMMARY OF DEFECTS OBSERVED—*Continued.*

Nature of Defects.	Number.	Dangerous.
Cases of defective stays	6	1
Cases of broken stays or braces	28	5
Cases of loose stays or braces	1	..
Boilers damaged by low water	1	..
Defective settings	49	11
Boilers with fractured plates	14	7
Boilers with burned plates	6	1
Boilers with blistered plates	8	..
Cases of sediment on fire-sheets	11	3
Cases of internal corrosion	26	..
Cases of scale or encrustation	34	4
Cases of internal grooving	1	..
Cases of external corrosion	25	1
Cases of defective tubes	30	3
Cases of defective feed-water arrangement	3	..
Cases of broken feed-valves	1	..
Serious leakage around tube-ends	32	..
Defective blow-off pipes or cocks	13	5
Defective water-gauges	12	8
Broken blow-off pipes or cocks	2	1
Water-columns without blow-outs	1	1
Cases of broken test-cocks	62	..
Connections to water-columns without valves	5	..
Neutral sheets not stayed	1	..
Furnaces out of shape	1	..
Boilers without fusible plugs	5	..
Boilers low at front end	8	..
Cases of serious leakage of fittings	12	2
Number of hand-holes, doors having bolts and dogs burned off	1	..
Defects in engines	9	4
Cases of defective steam-pipes	3	..
Unclassified defects	1	1
Totals	600	85

S. BAXTER,
L. DUCKITT,
JOHN CLARK,
Inspectors of Steam-boilers, District B.

Inspector's Report, District C.

NELSON, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit my tabulated report for the past year.

The work done has been much the same as in former years, and the defects discovered consisted, for the most part, of broken stays and small cracks on the circumferential seams in the fire-space and also several on the rear heads of return-tubular boilers under the tubes.

One boiler-explosion took place in which the whole crown-sheet of a 60-horse-power locomotive boiler pulled away from all the radial stays. The tube-sheet was also pulled off the top row of tubes, and the furnace-plate at the fire-door end was pulled off the upper row of stays. Although very badly bent down, the plate did not rupture, and only two of the mill crew, who were in the boiler-room at the time, were slightly scalded by the escaping steam.

The investigation showed that one of the rubber rings used as packing on the gauge-glass had been pulled off the glass and had lodged in the lower fitting, where it closed up the opening, causing a false water-level to be shown.

The engineer had also replaced the fusible plug with one having a hole drilled part way through, the hole being parallel and ⅜ inch in diameter. The small end of the hole was only ⅛ inch in diameter, and, as the tin melted out, the sediment on the upper end of the plug followed the melting tin and effectively closed the small opening in the plug. The evidence showed that the sheet had pulled off the stays more or less gradually, the centre row being the first to let go.

I have, etc.,

ANDREW SUTHERLAND,
Inspector, District C.

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
Second	5	1	4
Third	14	9	5
Fourth	19	14	5
Special creamery	2	2	..
Special road-roller	2	2	..
Special Doukhobor	2	2	..
Totals	44	30	14

REMARKS.

On file: Second Class, 3 (2 notified twice, 1 not notified); Third Class, 7 (1 notified 3 times, 3 notified once, 3 not notified); Fourth Class, 17 (2 notified 3 times, 3 notified twice, 8 notified once, 4 not notified); Special Doukhobor, 5 (5 notified once); total, 32.

SUMMARY OF WORK DONE IN DISTRICT C FOR YEAR ENDING MARCH 31ST, 1921.

Number of boilers inspected built under inspection in Eastern Canada	3
„ new boilers inspected built in United States	3
„ new boilers inspected (total)	6
„ boilers imported from Eastern Canada (second-hand)	2
„ boilers imported from United States (second-hand)	1
„ first inspections	10
„ inspections, external and internal	191
„ special inspections after repairs	10
„ visits in addition to inspections	193
„ boilers subjected to hydrostatic test	187
„ boilers on which pressure was reduced	7
„ boilers repaired under Inspector's directions	13
„ accidents to engines and boilers	1
„ accidents resulting in personal injury (not fatal)	1
„ investigations	1
„ inspections completed	191
Total horse-power of boilers inspected	20,653
Number of defects observed as per summary	404
Number of defects considered dangerous	14
Inspection fees earned	$2,442.76
Inspection fees collected	$2,335.02
Miles travelled by the Inspector	6,275
Letters inward	337
Letters outward	333
Telegrams inward	23
Telegrams outward	19
Boilers taken out of service	4

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Pressure-gauges defective	49	..
Cases of insufficient staying or bracing	1	..
Cases of defective stays	7	..
Cases of broken rivets	3	..
Cases of broken stays or braces	3	..
Cases of loose stays or braces	11	..
Boilers damaged by low water	1	1
Defective settings	36	1
Boilers with fractured plates	6	2
Boilers with burned plates	1	..
Boilers with blistered plates	3	1
Cases of sediment on fire-sheets	25	1
Cases of internal corrosion	13	..
Cases of scale or encrustation	41	..
Cases of external corrosion	24	..
Cases of defective tubes	8	1
Cases of defective feed-water arrangement	4	..
Cases of broken feed-valves	3	..
Serious leakage around tube-ends	12	1
Defective blow-off pipes or cocks	13	4
Defective water-gauges	4	..
Broken blow-off pipes or cocks	4	1
Cases of broken test-cocks	63	..
Connections to water-columns without valves	1	..
Furnaces out of shape	7	..
Boilers without fusible plugs	6	..
Boilers low at front end	41	..
Cases of serious leakage of fittings	3	..
Number of hand-holes, doors having bolts and dogs burned off	1	..
Defects in engines	1	..
Boilers without stop-valves	3	..
Cases of defective steam-pipes	7	1
Totals	404	14

ANDREW SUTHERLAND,
Inspector of Steam-boilers, District C.

Senior Inspector's Report, District D.

VANCOUVER, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit my annual report for the year ending March 31st, 1921. (*See* tabulated report.)

During the year there has been very little happening outside of ordinary routine in this district; we were fortunate in escaping serious accident. In addition to items mentioned in tabulated report, several inspections were made for the Workmen's Compensation Board, some in company with Mr. Gilmour, of the Board. Two laundry mangles imported from Eastern Canada were condemned after testing, owing to defective material. The work in this district for the first part of fiscal year was rather strenuous owing to being one Inspector short, but this was relieved when Mr. O'Neill was appointed and we were able to handle all the rush without inconvenience to the public.

The business prospects for this year do not appear so good as they did at this time last year, and with present staff I think we can clean up all the work, as we can get started on the logging-donkeys up the Coast and finish before bad weather in the fall, while the other Inspectors take care of the local inspections and engineers' examinations.

I have, etc.,

GEORGE O. MADIGAN,

Senior Inspector, District D.

REMARKS.

During the year most of my time has been occupied in the office, keeping records, attending to correspondence, arranging work for inspectors, and collecting fees.

NOTE.—The sum of $192.80 was collected for work done in this district by Mr. Davidson and credited to him after he had been transferred to New Westminster District.

SUMMARY OF WORK DONE IN DISTRICT D FOR YEAR ENDING MARCH 31ST, 1921.

Number of boiler-plates inspected	27
" boilers built under Inspector's supervision in British Columbia	4
" new boilers inspected built in United States	3
" new boilers inspected (total)	7
" boilers imported from United States (second-hand)	1
" boilers unclassified	1
" inspections, external and internal	11
" visits in addition to inspections	14
" boilers subjected to hydrostatic test	10
" boilers on which pressure was reduced	1
" accidents to engines and boilers	2
" investigations	1
" inspections completed	11
Total horse-power of boilers inspected	413.8
Number of defects observed as per summary	4
Number of defects considered dangerous	1
Inspection fees earned ($207.80 earned by Mr. Davidson and collected by District D)	$127.40
Inspection fees collected, $127.40; total for District D	$12,074.20
Miles travelled by the Inspector	403
Letters inward	2,459
Letters outward	3,572
Telegrams inward	4
Telegrams outward	3

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with fractured plates at fire-door	1	..
Cases of external corrosion	1	..
Cases of defective tubes	1	1
Defective water-gauges too low	1	..
Totals	4	1

GEORGE O. MADIGAN,

Senior Inspector of Steam-boilers, District D.

Inspector's Report, District D.

VANCOUVER, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have pleasure in forwarding you my report concerning the work done by me during the past year.

The majority of my inspections were carried out in logging camps, and which, taken as a whole, were found in a very satisfactory condition, considering the difficulties as to the upkeep of these machines in the woods.

The launch "Adanac" was used for this work, and ran fairly satisfactorily after various new parts were fitted to the engine and placed in charge of an engineer capable of exercising some common-sense; the total distance run by the launch being 2,200 miles.

The enclosed tabulated report will serve to give you an idea as to the extent of my efforts towards ensuring the safety of the public, a perusal of which I trust you will find satisfactory.

I have, etc.,
F. BATH,
Inspector, District D.

SUMMARY OF WORK DONE IN DISTRICT D FOR YEAR ENDING MARCH 31ST, 1921.

Number of boiler plates inspected	43
„ boilers built under Inspector's supervision in British Columbia	14
„ boilers inspected built under inspection in Eastern Canada	1
„ new boilers inspected built in United States	4
„ new boilers inspected (total)	19
„ boilers imported from United States (second-hand)	1
„ first inspections	20
„ inspections, external and internal	363
„ external inspections only	32
„ visits in addition to inspections	11
„ boilers subjected to hydrostatic test	343
„ boilers on which pressure was reduced	7
„ boilers unsafe without extensive repairs	1
„ boilers repaired under Inspector's directions	2
„ inspections completed	404
Total horse-power of boilers inspected	29,063
Number of defects observed as per summary	165
Inspection fees earned	$4,396.12
Inspection fees collected	$4,389.84
Miles travelled by the Inspector	3,344

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves overloaded	3	..
Boilers with safety-valves defective in construction	6	..
Pressure-gauges defective	32	..
Cases of broken stays or braces	29	..
Boilers with fractured plates	4	..
Cases of internal corrosion	6	..
Cases of external corrosion	11	..
Cases of defective tubes	11	..
Serious leakage around tube-ends	31	..
Serious leakage in rivet-joints	3	..
Defective blow-off pipes or cocks	12	..
Defective water-gauges	1	..
Broken blow-off pipes or cocks	4	..

SUMMARY OF DEFECTS OBSERVED—*Continued.*

Nature of Defects.	Number.	Dangerous.
Cases of broken test-cocks	5	..
Defects in engines	1	..
Cases of defective steam-pipes	3	..
Unclassified defects	3	..
Totals	165	..

REMARKS.

In addition to the above, I inspected twelve boilers for the Workmen's Compensation Board, also various inspections on machinery for the same department.

F. BATH,
Inspector of Steam-boilers, District D.

Inspector's Report, District D.

VANCOUVER, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to forward the enclosed tabulated statement of inspection-work during the year 1920–21.

It will be noted how the amount of new work has decreased towards the end of the year. There are now signs of revival.

With the exception of a 72 by 18 return-tubular boiler which was damaged through lack of water, nothing out of the ordinary routine came within my observation.

That inspection-work is not without its humorous side was evidenced by my discovering a man two months ago who had the courage to attempt the well-nigh impossible. His task, on which he had faithfully worked for a week, was the truing-up of a 96-inch diameter, 22-inch face cast-iron fly-wheel that had been characteristically warped and twisted in the fire which had destroyed the mill. Already he had broken two spokes, and as his process bid fair to breaking what remained, I advised him to desist.

Trusting the record of work done will have your approval,

I have, etc.
FRED BIGGAM.
Inspector, District D.

SUMMARY OF WORK DONE IN DISTRICT D FOR YEAR ENDING MARCH 31ST, 1921.

Number of boiler-plates inspected	107
„ boilers built under Inspector's supervision in British Columbia	36
„ boilers inspected built in Eastern Canada not under inspection	3
„ new boilers inspected built in United States	8
„ new boilers inspected (total)	46
„ boilers unclassified	12
„ first inspections	14
„ inspections, external and internal	339
„ internal inspections only	5
„ external inspections only	28
„ special inspections after repairs	3
„ visits in addition to inspections	106
„ boilers subjected to hydrostatic test	307
„ boilers on which pressure was reduced	14
„ boilers unsafe without extensive repairs	7
„ boilers repaired under Inspector's directions	13

SUMMARY OF WORK DONE IN DISTRICT D—*Continued.*

Number of inspections completed	374
Total horse-power of boilers inspected	36,585.53
Number of defects observed as per summary	365
Number of defects considered dangerous	11
Inspection fees earned	$4,268.88
Inspection fees collected	$4,259.11
Miles travelled by the Inspector (approximate)	1,998

WORK DONE FOR OTHER DISTRICTS.

The undernoted inspections on Government steam plants are credited to fees earned though not collected: 43255-6-B.C., Normal School; 43172, Normal School; 43089-90, University of British Columbia; 43316-7, Technical School; 2322-B.C., University of British Columbia.

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves inoperative	2	2
Boilers with safety-valves defective in construction	1	..
Boilers without pressure-gauges	6	1
Pressure-gauges defective	32	2
Cases of defective stays	10	..
Cases of defective riveting	2	..
Cases of broken stays or braces	5	1
Boilers damaged by low water	1	1
Defective settings	1	..
Boilers with fractured plates	16	2
Cases of sediment on fire-sheets	14	..
Cases of internal corrosion	33	..
Cases of scale or encrustation	19	..
Cases of external corrosion	2	..
Cases of defective tubes	20	..
Cases of defective feed-water arrangement	9	..
Cases of broken feed-valves	1	..
Serious leakage around tube-ends	25	..
Serious leakage in rivet-joints	4	..
Defective blow-off pipes or cocks	9	..
Defective water-gauges	1	..
Broken blow-off pipes or cocks	1	..
Cases of broken test-cocks	76	..
Boilers low at front end	12	..
Cases of serious leakage of fittings	12	..
Defects in engines	1	..
Cases of defective steam-pipes	1	..
Unclassified defects	48	..
Totals	364	9

F. BIGGAM,
Inspector of Steam-boilers, District D.

Inspector's Report, District D.

VANCOUVER, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—Enclosed herewith I beg to submit my report for year ending March 31st, 1921, with statements of inspections carried out and defects observed.

With reference to the defects, I wish to say that the features were the cases of "safety-valves inoperative" and "shell-plates of boilers cracked." The former were confined to steam plants of low power operated within the jurisdiction of the "Workmen's Compensation Act," and also one heating plant. In each instance the safety-valve had been securely fastened down to prevent its normal functioning. It is perhaps as well that authority to inspect low horse-power boilers exists, since from the foregoing and similar instances which come to light it would seem that boilers of this class can also become potential sources of danger. The cracks in shell-plate mentioned were found adjacent to stop-valve openings which had been punched out. The investigation taken at your suggestion disclosed one more case, and indicates that the cause is related to the extra-heavy cast-iron flanged nozzle, frequently riveted to comparatively thin shell-plates. In both cases a heavy pipe was also attached, and it would seem that the stresses set up in the shell-plate by the pipe-line and the over-rigid nozzle produced the condition. It is satisfactory to note that late regulations tend towards the elimination of such rigidity.

Incidents of the route were the enrolment of a lady in the ranks of the licensed logging engineers, and also the occasional requests by steam-users for assistance of a technical character other than that provided by boiler inspections.

I have, etc.;
JOHN O'NEILL,
Inspector, District D.

SUMMARY OF WORK DONE IN DISTRICT D FOR YEAR ENDING MARCH 31ST, 1921.

Number of boiler-plates inspected	37
„ boiler-plates rejected	1
„ boilers built under Inspector's supervision in British Columbia	8
„ boilers inspected built under inspection in Eastern Canada	1
„ boilers inspected built in Eastern Canada not under inspection	5
„ new boilers inspected built in United States	4
„ new boilers inspected built in British Columbia	9
„ new boilers inspected (total)	16
„ boilers imported from Eastern Canada (second-hand)	2
„ boilers imported from United States (second-hand)	1
„ boilers unclassified	4
„ first inspections	26
„ inspections, external and internal	248
„ internal inspections only	4
„ external inspections only	177
„ special inspections after repairs	17
„ visits in addition to inspections	38
„ boilers subjected to hydrostatic test	396
„ boilers on which pressure was reduced	8
„ boilers unsafe without extensive repairs	9
„ boilers repaired under Inspector's directions	8
„ accidents to engines and boilers	3
„ inspections completed	435
Total horse-power of boilers inspected	20,866.56
Number of defects observed as per summary	94
Number of defects considered dangerous	7
Inspection fees earned	$3,417.49

SUMMARY OF WORK DONE IN DISTRICT D—*Continued.*

Inspection fees collected	$3,090.05
Miles travelled by the Inspector	1,272
Boilers taken out of service	4

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves inoperative	5	5
Pressure-gauges inoperative	2	..
Pressure-gauges defective	13	..
Cases of insufficient staying or bracing	1	..
Cases of defective stays	2	..
Cases of broken stays or braces	1	..
Cases of loose stays or braces	1	..
Boilers damaged by low water	2	..
Defective settings	1	..
Boilers with fractured plates	6	2
Cases of sediment on fire-sheets	1	..
Cases of internal corrosion	1	..
Cases of external corrosion	12	..
Cases of defective tubes	7	..
Cases of defective feed-water arrangement	1	..
Defective blow-off pipes or cocks	1	..
Water-columns without blow-outs	2	..
Cases of broken test-cocks	1	..
Neutral sheets not stayed	1	..
Furnaces out of shape	1	..
Boilers without fusible plugs	3	..
Cases of serious leakage of fittings	1	..
Number of hand-holes, doors having bolts and dogs burned off	2	..
Defects in engines	1	..
Boilers without hand-holes	1	..
Boilers without stop-valves	1	..
Cases of defective steam-pipes	1	..
Unclassified defects	4	..
Totals	76	7

REMARKS.

Unclassified defects: Hand-holes cut in wrong direction, 1; water-column set too high, 1; cracked section in mangle, 1; extensive welding in boiler-head, 1. Safety orders issued under "Workmen's Compensation Act," 20.

JOHN O'NEILL,
Inspector of Steam-boilers, District D.

SUMMARY OF TOTAL WORK DONE IN DISTRICT D FOR YEAR ENDING MARCH 31ST, 1921.

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
Second	23	15	8
Third	74	50	24
Fourth	150	112	38
Special logging-donkey	73	59	14
Special heating	25	23	2
Temporary	39	39	..
Totals	384	298	86

SUMMARY OF WORK DONE.

Number of boiler-plates inspected	214
„ boiler-plates rejected	1
„ boilers built under Inspector's supervision in British Columbia	62
„ boilers inspected built under inspection in Eastern Canada	2
„ boilers inspected built in Eastern Canada not under inspection	8
„ new boilers inspected built in United States	19
„ new boilers inspected built in British Columbia	9
„ new boilers inspected (total)	88
„ boilers imported from Eastern Canada (second-hand)	2
„ boilers imported from United States (second-hand)	3
„ boilers unclassified	17
„ first inspections	60
„ inspections, external and internal	961
„ internal inspections only	41
„ external inspections only	305
„ special inspections after repairs	20
„ visits in addition to inspections	169
„ boilers subjected to hydrostatic test	1,056
„ boilers on which pressure was reduced	30
„ boilers unsafe without extensive repairs	17
„ boilers repaired under Inspector's directions	23
„ accidents to engines and boilers	5
„ investigations	1
„ inspections completed	1,224
Total horse-power of boilers inspected	86,928.86
Number of defects observed as per summary	628
Number of defects considered dangerous	19
Inspection fees earned	$12,209.99
Inspection fees collected	$12,074.20
Miles travelled by the Inspector	7,017
Letters inward	2,459
Letters outward	3,572
Telegrams inward	4
Telegrams outward	3
Boilers taken out of service	4

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves inoperative	10	7
Boilers with safety-valves overloaded	6	..
Boilers with safety-valves defective in construction	1	..
Boilers wtihout pressure-gauges	6	1
Pressure-gauges inoperative	34	..
Pressure-gauges defective	45	2
Cases of insufficient staying or bracing	1	..
Cases of defective stays	12	..
Cases of defective riveting	31	..
Cases of broken stays or braces	6	1
Cases of loose stays or braces	1	..
Boilers damaged by low water	3	1
Defective settings	6	..
Boilers with fractured plates	23	4
Cases of sediment on fire-sheets	21	..
Cases of internal corrosion	34	..
Cases of scale or encrustation	19	..
Cases of internal grooving	11	..

SUMMARY OF DEFECTS OBSERVED—*Continued.*

Nature of Defects.	Number.	Dangerous.
Cases of external corrosion	26	..
Cases of defective tubes	28	1
Cases of defective feed-water arrangement	10	..
Cases of broken feed-valves	32	..
Serious leakage around tube-ends	28	..
Serious leakage in rivet-joints	16	..
Defective blow-off pipes or cocks	11	..
Defective water-gauges	6	..
Broken blow-off pipes or cocks	1	..
Water-columns without blow-outs	7	..
Cases of broken test-cocks	77	..
Neutral sheets not stayed	1	..
Furnaces out of shape	1	..
Boilers without fusible plugs	3	..
Boilers low at front end	12	..
Cases of serious leakage of fittings	13	..
Number of hand-holes, doors having bolts and dogs burned off	3	..
Defects in engines	2	..
Boilers without hand-holes	1	..
Boilers without stop-valves	4	..
Cases of defective steam-pipes	5	..
Unclassified defects	52	..
Totals	609	17

GEO. O. MADIGAN,
F. BATH,
F. BIGGAM,
JOHN O'NEILL,
Inspectors of Steam-boilers, District D.

Inspector's Report, District E.

VERNON, B.C., April 1st, 1921.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I beg to submit the following report of work done in District E during the year ending March 31st, 1921:—

There have been no boiler or engine-room accidents resulting in injury to employees or others, but one boiler at Williams Lake was seriously damaged by overheating, caused by low water.

Until a month ago my headquarters were in New Westminster, but this was uncentral and it was quite impossible to satisfactorily control this very large district.

Now that my office has been placed at Vernon, at least some parts of my district are more satisfactorily controlled. There is yet a very large district north of Kamloops and Ashcroft which can only be visited once a year, so that the proper care of the plants in this district is entirely in control of the engineers. There is again farther north a district not yet visited, the Peace River District, and during the coming year it is my intention to go, at your request, and inspect any boilers I may find there.

This will entail a revision of my programme of work and may mean that I shall be unable to visit some of the plants, at least, in the Cariboo.

You will understand that this is a difficult district in which to arrange work satisfactorily, as in a large part of the district it is hardly possible to begin inspections until April is well advanced, and the work must be completed before winter begins.

The present arrangement, although not ideal, is better for the carrying-out of the work of the district, as I can give more immediate attention to a large section of my district.

There has been a number of accidents to employees in mills and other workshops which I have investigated for the Commissioner of the Workmen's Compensation Board.

I find that mill-owners, at least the large mill-owners, are very friendly indeed towards the "Workmen's Compensation Act," and have of their own volition in some cases made great improvements in their safeguards. The standard of accident-prevention is being greatly increased.

Trusting that this report may prove satisfactory,

I have, etc.,

JAS. DAVIDSON,

Inspector, District E.

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
Third	2	1	1
Fourth	22	17	5
Special creamery	1	1	..
Special heating	4	4	..
Special threshing	1	1	..
Totals	30	24	6

SUMMARY OF WORK DONE IN DISTRICT E FOR YEAR ENDING MARCH 31ST, 1921.

Number of drawings and specifications calculated for new boilers	10
„ new boilers inspected built in United States	1
„ new boilers inspected built in British Columbia	2
„ new boilers inspected (total)	3
„ boilers imported from Eastern Canada (second-hand)	1
„ first inspections	19
„ inspections, external and internal	271
„ visits in addition to inspections	61
„ boilers subjected to hydrostatic test	213
„ boilers on which pressure was reduced	6
„ boilers unsafe without extensive repairs	9
„ boilers repaired under Inspector's directions	6
„ inspections completed	270
Total horse-power of boilers inspected	15,195
Number of defects observed as per summary	57
Number of defects considered dangerous	13
Inspection fees earned	$2,274.44
Inspection fees collected	$2,085.95
Miles travelled by the Inspector	7,743

WORK DONE FOR OTHER DISTRICTS.

Assisted at examinations in District A.

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves overloaded	1	1
Boilers with safety-valves defective in construction	1	..
Pressure-gauges inoperative	3	3
Pressure-gauges defective	8	..
Cases of insufficient staying or bracing	5	2

Summary of Defects observed—*Continued.*

Nature of Defects.	Number.	Dangerous.
Cases of defective stays	2	..
Cases of defective riveting	2	..
Boilers damaged by low water	1	..
Boilers with fractured plates	2	..
Cases of scale or encrustation	1	..
Cases of external corrosion	6	..
Cases of defective tubes	9	..
Serious leakage around tube-ends	3	..
Serious leakage in rivet-joints	2	..
Defective water-gauges	3	..
Neutral sheets not stayed	7	7
Furnaces out of shape	1	..
Totals	57	13

Jas. Davidson,
Inspector of Steam-boilers, District E.

LIST OF REGISTERED DESIGNS.

LIST OF BOILER MANUFACTURERS, WITH THEIR NUMBER OF APPROVED AND REGISTERED DESIGNS.

American Nitrogen Products Co., Vancouver, B.C.	1
Alley & McLellan, Glasgow, Scotland	1
Allbright-Nell Co., Chicago, Ill., U.S.A.	1
American Radiator Co. of Canada, Toronto, Ont.	30
American Hoist & Derrick Co., St. Paul, Minn., U.S.A.	26
Ames Iron Works, Oswego, N.Y., U.S.A.	5
Atlas Engine Works, Indianapolis, U.S.A.	1
Averling & Porter, Rochester, England	1
Avery Co., Peoria, Ill., U.S.A.	2
Babcock & Wilcox, Renfrew, Scotland	27
Badenhausen Co., Philadelphia, Pa., U.S.A.	4
B.C. Iron Works, Victoria, B.C.	1
B.C. Marine Railway Co., Vancouver and Victoria, B.C.	5
Beatty, M., & Sons, Ltd., Welland, Ont.	15
Berg Machinery Manufacturing Co., Toronto, Ont.	1
Bell, Robert, Engine & Threshing Co., Ltd., Seaforth, Ont.	6
Brown Hoisting Co., Cleveland, Ohio, U.S.A.	2
Bros., William, Minneapolis, U.S.A.	7
Broderick Boiler Co., Uncre, Ind., U.S.A.	2
Brownell Co., The, Dayton, Ohio, U.S.A.	3
Browning Engineering Co., Cleveland, Ohio, U.S.A.	1
Bucyrus Co., South Milwaukee, U.S.A.	23
Buffalo Steam Roller Co., Buffalo, N.Y., U.S.A.	1
Canadian Allis-Chalmers, Ltd., Toronto, Ont.	3
Canada Foundry Co., Toronto, Ont.	22
Canadian Collieries, Ltd., Union Bay, B.C.	1
Canada Iron Corporation, Ltd., Midland, Ont.	6
Canadian Northern Railway, Winnipeg, Man.	3
Canadian Talbot Boiler Co., Vancouver, B.C.	1
Case, J. I., Threshing Co., Racine, Wis., U.S.A.	22
Casey-Hedges Co., Ltd., Chattanooga, Tenn., U.S.A.	1
Canadian Western Manufacturing & Supply Co., Calgary, Alta.	1
Clyde Iron Works, Duluth, Minn., U.S.A.	10
Climax Manufacturing Co., Corry, Pa., U.S.A.	6
Clayton, Son & Co., Leeds, England	1
Columbiana Boiler Works Co., Ltd., Ohio, U.S.A.	4
Continental Iron Works, New York, U.S.A.	1
Cochrane & Co., Annan, Scotland	1
Decarie Safety Boiler Co., Vancouver, B.C.	4
Diamond Boiler Works, Minneapolis, U.S.A.	1
Doty Engine Works, Goderich, Ont.	6
Dutton Co., C. H., Kalamazoo, Mich., U.S.A.	7
Engineering & Machine Co. of Canada, St. Catharines, Ont.	95
Empire Manufacturing Co., Ltd., Vancouver, B.C.	9
Erie City Iron Works, Erie, Pa., U.S.A.	5
Farquhar Co., A. B., York, Pa., U.S.A.	7
Foden, Ltd., Sandback, England	2
Frost Manufacturing Co., Galesburgh, Ill., U.S.A.	36
Garr, Scott & Co., Richmond, Ind., U.S.A.	1
Gem City Boiler Works, Dayton, Ohio, U.S.A.	1
Georgian Bay Engine Works, Midland, Ont.	1
Goldie-McCulloch Co., Galt, Ont.	50

LIST OF BOILER MANUFACTURERS—*Continued.*

Grand Trunk Pacific Railway Co.	2
Gray, Andrew, Marine Iron Works, Victoria, B.C.	8
Great Northern Railway, Winnipeg, Man.	2
Gurney Foundry Co., Ltd., Toronto, Ont.	18
Hamilton Manufacturing Co., W., Peterboro, Ont.	1
Heaps Engineering Co., Ltd., New Westminster, B.C.	4
Holt Manufacturing Co., Stockton, Cal., U.S.A.	2
Houston, Stanwood & Gambie, Cincinnati, Ohio, U.S.A.	1
Imperial Oil Co., Sarnia, Ont.	6
International Engineering Works, Amherst, N.S.	34
Inglis Co., John, Toronto, Ont.	8
Industrial Works, Bay City, Mich., U.S.A.	3
Johnston Bros., Ferrysburg, Pa., U.S.A.	2
Keeler, E., Co., Williamsport, Pa., U.S.A.	1
Kelly Springfield Road Roller Co., Springfield, Ohio, U.S.A.	1
Kewanee Boiler Co., Kewanee, Ill., U.S.A.	15
Keystone Driller Co., Beaver Falls, Pa., U.S.A.	3
Kidwell Boiler Co., Milwaukee, Wis., U.S.A.	1
Leonard & Sons, E., London, Ont.	37
Leffell & Co., James, Springfield, Ohio, U.S.A.	1
Lidgerwood Manufacturing Co., Brooklyn, N.Y., U.S.A.	4
Lyons Boiler Works, DePere, Wis., U.S.A.	2
Manitowoc Iron Works, Manitowoc, Wis., U.S.A.	2
Mann's Patent Steam Cart & Wagon, Leeds, England	3
Marine Iron Works, Victoria, B.C.	8
Marion Steam Shovel Co., Marion, Ohio, U.S.A.	37
Marion Osgood Co., Marion, Ohio, U.S.A.	6
Marsh & Henthorne, Belleville, Ont.	10
Matheson & Co., J., Ltd., New Glasgow, N.S.	10
Marshall & Sons Co., Ltd., Gainsborough, England	1
Mainland Iron Works, Vancouver, B.C.	1
MacDougall Co., John, Caledonian Iron Works, Montreal, Que.	3
Mechanical Manufacturing Co., Chicago, Ill., U.S.A.	1
Murray-Latta Machine Works, Vancouver, B.C.	1
Nagle Engine and Boiler Works, Erie, Pa., U.S.A.	1
National Machinery Company, Vancouver, B.C.	2
Nicol Boiler Works, Vancouver, B.C.	2
Napanee Iron Works, Napanee, Ont.	1
North Shore Iron Works, North Vancouver, B.C.	41
Northern Aluminium Co., Toronto, Ont.	3
Oil City Boiler Works, Oil City, Pa., U.S.A.	1
Orr & Sembower, Reading, Pa., U.S.A.	19
Pennsylvania Boiler Works, Erie, Pa., U.S.A.	3
Polson Iron Works, Toronto, Ont.	1
Puget Sound Iron & Steel Works, Tacoma, Wash., U.S.A.	2
Risdon Locomotive & Iron Co., San Francisco, Cal., U.S.A.	1
Robey & Co., Lincoln, England	2
Rooke, Wm. Vancouver, B.C.	1
Ross & Howard Iron Works, Vancouver, B.C.	34
Ruston-Proctor Co., Lincoln England	7
Sawyer-Massey Co., Ltd., Hamilton, Ont.	15
Seattle-Astoria Iron Works, Seattle, Wash, U.S.A.	1
Standard Iron Works, Vancouver, B.C	1
Sterns Co., Erie, Pa., U.S.A.	1
Schwab-Lezotte Boiler Co., Milwaukee, U.S.A.	1
Sumner Iron Works, Everett, Wash., U.S.A.	1

LIST OF BOILER MANUFACTURERS—*Continued.*

Swift & Co., Chicago, Ill., U.S.A.	1
Taylor, Forbes & Co., Ltd., Vancouver, B.C.	30
Thew Automatic Shovel Co., Lorraine, Ohio, U.S.A.	5
Toronto Iron Works, Ltd., Toronto, Ont.	1
Union Iron Works, Erie, Pa., U.S.A.	48
Vancouver Engineering Works, Vancouver, B.C.	94
Victoria Machinery Depot Co., Victoria, B.C.	36
Vulcan Iron Works, Vancouver, B.C.	59
Vulcan Iron Works, Seattle, Wash., U.S.A.	1
Vulcan Iron Works, Wilkes-Barre, Pa., U.S.A.	1
Vulcan Iron Works, Winnipeg, Man.	3
Waterous Engine Works, Brantford, Ont.	69
Washington Iron Works, Seattle, Wash., U.S.A.	43
Western Dry Dock & Shipbuilding Co., Ltd., Port Arthur, Ont.	2
Wickes Boiler Co., Saginaw, Mich., U.S.A.	5
Willamette Iron & Steel Works, Portland, Ore., U.S.A.	10

LIST OF MAKERS WHO HAVE REGISTERED AND APPROVED BOILER ACCESSORY DESIGNS.

Spring Safety-Valves.

	6 in.	5 in.	4½ in.	4 in.	3½ in.	3 in.	2½ in.	2 in.	1½ in.	1¼ in.	1 in.	¾ in.	½ in.
American Steam Gauge & Valve Co., Boston, U.S.A.	1	1	1	1	....	2	5	5	3	3	2	2	....
Ashton Valve Co., Boston, Mass., U.S.A.	....	....	....	3	2	....	1	....	....	....	....	....	....
Consolidated Safety Valve Co., New York, U.S.A.	....	....	....	1	....	5	1	1	1	....	....	....	....
Crane Co., Chicago, Ill., U.S.A.	1	1	1	2	1	2	3	4	4	2	3	2	2
Crosby Steam Gauge & Valve Co., Chicago, U.S.A.	....	....	....	....	....	2	3	1	1	....	....	....	....
E. Leonard & Sons, London, Ont.	....	....	....	....	....	1	1	1	1	....	....	....	....
J. E. Lonergan & Co., Philadelphia, Pa., U.S.A.	....	....	....	....	....	1	1	2	2	1	1	....	....
Jas. Morrison Brass Manufacturing Co., Ltd., Toronto, Ont.	....	....	....	....	....	....	1	....	1	....	....	....	....
Letson & Burpee, Ltd., Vancouver, B.C.	....	....	....	....	....	....	....	....	1	....	....	....	....
Lunkenheimer Co., Cincinnati, U.S.A.	....	1	1	3	3	6	4	4	1	1	1	1	1
T. McAvity & Sons, St. John, N.B.	....	....	....	1	....	1	1	7	1	1	1	1	1
Ruston, Proctor & Co., Ltd., Lincoln, England.	....	....	....	....	....	....	....	....	1	....	....	....	....
International Engineering Works, Amherst, N.S.	....	....	....	....	....	1	....	....	....	....	....	....	....
Waterous Engine Works, Ltd., Brantford, Ont.	....	....	....	....	....	1	....	....	....	....	....	....	....

Main Stop-valves.

Crane Co., Chicago, Ill., U.S.A.	8
Empire Manufacturing Co., London, Ont.	8
G. M. Favis Regulator Co., Chicago, Ill., U.S.A.	1
Jenkins Bros., Ltd., Montreal, Que.	16
Lagonda Manufacturing Co., Springfield, Ohio, U.S.A.	1
Lunkenheimer Co., Cincinnati, Ohio, U.S.A.	13
Morrison, Jas., Brass Manufacturing Co., Toronto, Ont.	2
Nathan Manufacturing Co., New York, U.S.A.	1
Pemberthy Injector Co., Ltd., Windsor, Ont.	2

Steam-gauges.

Ashcroft Manufacturing Co., New York, U.S.A.	5
Federal Gauge Co., Chicago, Ill., U.S.A.	3
Marshalltown Manufacturing Co., Marshalltown, Ia., U.S.A.	1
Morrison, Jas., Brass Manufacturing Co., Toronto, Ont.	2
Rooke, W. M., & Co., Vancouver, B.C.	1
United States Gauge Co., New York, U.S.A.	2

Blow-off Cocks and Valves.

Babcock & Wilcox, Montreal, Que	2
Crane Co., Chicago, Ill., U.S.A.	4
Cadman Manufacturing Co., Pittsburgh, Pa., U.S.A.	1

LIST OF MAKERS OF BOILER ACCESSORIES—*Continued.*

Elliott Co., Pittsburgh, Pa., U.S.A.	1
Engineering Specialties Co., Toronto, Ont.	4
Homestead Valve Manufacturing, Pittsburgh, Pa., U.S.A.	2
Jenkins Bros., Ltd., Montreal, Que.	3
Judson Governor Co., Rochester, N.Y., U.S.A.	1
Lunkenheimer Co., Cincinnati, Ohio, U.S.A.	6
Morrison, Jas., Brass Manufacturing Co., Toronto, Ont.	1

Safety Apparatus.

Kilkenny Automatic Safety Appliance Co., Walla Walla, Wash, U.S.A.	1

Water-gauge Fittings.

Babcock & Wilcox, Montreal, Que.	4
Edna Brass Manufacturing Co., Cincinnati, U.S.A.	1
Jenkins Bros., Ltd., Montreal, Que.	1
McAvity & Sons, T., St. John, N.B.	1
Morrison, Jas., Brass Manufacturing Co., Ltd., Toronto, Ont.	2
Nathan Manufacturing Co., New York, U.S.A.	1
Pemberthy Injector Co., Ltd., Windsor, Ont.	4
Huyette, Paul B., Co., Philadelphia, Pa., U.S.A.	1
Waterous Engine Works, Brantford, Ont.	1

Test-cocks (or Valves).

Babcock & Wilcox, Montreal, Que.	1
Case, J. I., Threshing Machine Co., Racine, Wis., U.S.A.	1
Huyette, Paul B., Co., Philadelphia, Pa., U.S.A.	1
Morrison, Jas., Brass Manufacturing Co., Ltd., Toronto, Ont.	2
McAvity, T., & Sons, St. John, N.B.	2
Nathan Manufacturing Co., New York, U.S.A.	1
Pemberthy Injector Co., Ltd., Windsor, Ont.	2

Superheaters.

Moore & Co., Seattle, Wash., U.S.A.	1
Power Specialty Co., New York, U.S.A.	3

Economizers.

Green Economizer Co., Toronto, Ont.	3
Sturtevant, B. F., Co., Boston, Mass., U.S.A.	1

Combined Check and Feed Valves.

Babcock & Wilcox, Montreal, Que.	1
Lagondo Manufacturing Co., Springfield, Ohio, U.S.A.	1
Lytte Manufacturing Co., Montreal, Que.	2
Nathan Manufacturing Co., New York, U.S.A.	3

Retorts, Digesters, etc.

Alaska-Copper Co., Vancouver, B.C.	Copper kettle	1
Black Clawston Co., Hamilton, Ont.	Mangle-cylinder	1
Bucyrus Copper Co., Bucyrus, U.S.A.	Copper kettle	1
Engineering & Machine Co. of Canada	Drying-rolls	1
Letson & Burpee, Ltd., Vancouver, B.C.	Retort	1
Schaake Co., Ltd., Vancouver, B.C.	Retort	1
Vulcan Iron Works, Vancouver, B.C.	Digester	4
Booth Coulter, Toronto, Ont.	Copper-kettle	8

Retorts, Digesters, etc.—Continued.

Barrett & Co., Marpole, B.C.	Tube still	1
Barrett & Co., Marpole, B.C.	Retort	1
Canadian Laundry Machinery Co., Toronto	Body-ironer	1
Canadian Laundry Machinery Co., Toronto,	Flat-ironer	1
City Welders, Vancouver, B.C.	Copper kettle	1
Heaps Engineering Co., New Westminster, B.C.	Rubber digester	1
Oakland Brass Co., Oakland, Cal.	Vacuum pan	1
Pacific Copper Co., Vancouver, B.C.	Copper kettle	4
Patterson Boiler Works, Vancouver, B.C.	Fish-tank	1
Sverson Evaporating Co., Chicago, Ill.	Evaporator	1
Vancouver Engineering Co., Vancouver, B.C.	Digester	5
Vancouver Engineering Co., Vancouver, B.C.	Nitrate-drier	1
Woodcraft Co., St. Paul, U.S.A.	Tire-vulcanizer	1
Willamette Iron & Steel Co., Portland, Ore.	Digester	1
Yarrows, Ltd., Esquimalt, B.C.	Copper kettle	3
Yarrows, Ltd., Esquimalt, B.C.	Saturating-tank	1
North Shore Iron Works, North Vancouver, B.C.	Still	1

Feed-water Regulators.

Northern Equipment Co., Erie, Pa., U.S.A.	1
Babcock & Wilcox, Montreal, Que.	1

Oil-burners.

Willamette Iron & Steel Co., Portland, Ore., U.S.A.	1

Return-steam Traps.

Cole, G. W., Toronto, Ont.	7

Steam-separators.

Cochrane Co., Philadelphia, Pa., U.S.A.	1

ENGINEERS WHO OBTAINED CERTIFICATES.

(Year ending March 31st, 1921.)

First Class.

Cartwright, Frank	15012	Morton, J. F.	14171
Devonshire, H. T.	14886		

Second Class.

Adam, William	14782	Mathews, Jas.	13990
Altham, G. H.	14587	Manson, Arthur	14512
Baird, S. N.	14883	Matheson, W. A.	14897
Brydon, James	13974	McGill, David	14274
Brown, Isaac	14803	Painter, E. T.	13963
Carwin, J. H.	14553	Pratt, David	14874
Carson, T. J.	14866	Reid, James	14739
Forsyth, David	14425	Ritchie, E. S.	14774
Frain, J. S.	14179	Smith, William	14928
Gillis, J. E.	13932	Thomson, Lewis	14482
Gilmore, W. H.	14062	Thomas, D. W.	14960
Gibson, W. R.	13870	Whitehouse, J. W.	14876
Kenworthy, L. C.	14033	Wheatley, E. A.	14930
Kinney, C. R.	14917	Wilson, N. J.	14581
Knowles, W. H.	14736	Wilson, J. H.	14715
Liebenschel, E. P.	14068	Williamson, W. S.	15008

Third Class.

Adam, F. N.	14882	Eddy, J. W.	14335
Antrolius, James	14124	Edwards, W. C.	14683
Anderson, A. K.	14904	Exton, William	14157
Ball, Thomas	13970	Fowler, William	14061
Bartlett, P. R.	14009	Fosolan, H. S.	14830
Bartell, A. G.	14204	Fraser, J. Y.	14158
Batcheldor, W. R.	14328	Frame, William	14760
Balo, Edward	14498	Gawley, Joseph	14246
Belanger, J. A.	14153	Garner, Llewellyn	14652
Bergman, J. A.	14405	Gray, Robert	14341
Bean, L. S.	14591	Gregory, J. W.	14598
Biamco, J. G.	14330	Griffiths, John	14892
Boulter, H. J.	13959	Hann, E. H.	13934
Boulanger, Wilfred	14406	Harrison, Luke	14130
Bodaly, John	14551	Hardy, D. T.	14432
Briggs, Tom	14012	Harmston, T. G.	14506
Brown, J. O.	14013	Hartmen, Robert	14654
Brewin, E. V.	14409	Herbert, A. E.	13937
Brown, E. J.	14920	Heard, T. M.	14027
Browning, A. H.	14822	Hickox, W. C.	14434
Brown, Arthur	14964	Hinton, S. W.	14437
Brown, John	14907	Hitchen, G. H.	14893
Carson, W. G.	14015	Howard, Samuel	14657
Cameron, G. I.	14103	Hudson, A. J.	14894
Cant, James	14127	Ingard, Chris	14441
Cairns, Robert	14909	Isherwood, Henry	13939
Chandler, W. P.	14413	Ivany, L. A.	14443
Clarke, T. E.	14156	Jemson, Stanley	14509
Clarke, E. L.	14207	Johnson, D. E.	14032
Collingwood, Peter	13976	Johnstone, G. S.	14259
Cownden, W. R.	14018	Jones, M. S.	14260
Cook, S. G.	14128	Jones, H. I.	14868
Corkill, W. W. E.	14556	Jupp, J. B.	14564
Costello, Charles	14645	Kelly, P. D.	13961
Crocker, H. W.	14021	Kemp, A. L.	14135
Davies, E. J. H.	13931	Kearney, Tom	14689
Dickson, Thomas	14887	Kendall, William	14949
Doig, S. A.	14910	Kirk, J. M.	14136
Duncan, W. F. R.	14022	Kinee, P. V.	14735
Dunseath, T. A.	14595	Kinnaird, J. R.	14765

THIRD CLASS—*Continued.*

Knox, William 14690
Kynman, Thomas 14350
Lansdell, E. E. 14137
Lemon, L. J. 14352
Learmonth, James 14447
Leith, David 14603
Lemoine, J. E. 14839
Litster, W. W. 14451
Lonsdale, William 14452
Malcolm, J. H. 14354
Macham, Bert 14513
May, Sidney 14660
Metcalf, W. G. 14694
Miller, J. A. 13991
Mills, R. W. 14514
Morgan, R. O. 13992
MacArthur, William 14272
MacArthur, W. B. 14696
Macready, William 14811
MacFarlane, A. K. 14273
MacInnes, A. G. 14460
Maclean, J. M. 14165
McMurtrie, William 13966
McWilliam, Robert 14464
McNair, F. C. 14698
McNeil, Duncan 14041
MacPherson, Alex. 13995
Noyes, W. E. 14162
Olds, C. H. 14164
Parker, R. C. 13964
Paterson, Peter 14284
Parham, R. N. 14663
Peterson, Henry 14187
Quist, J. R. 14875
Reeves, W. M. 14188
Reivan, A. F. 14610
Rippon, J. J. 14542
Robson, L. M. 13950
Roberts, William 14289
Ross, David 14471
Ross, J. M. 14472
Root, H. N. 14901
Schofield, Sam 14119
Scholes, James 14291
Scott, C. G. 14614
Scott, John 14854
Seivewright, Charles 14143
Sheppard, B. 14144
Sheldon, G. C. 14221
Smith, R. L. 14001
Smeby, Heldg. 14294
Smith, G. E. 14743
Smith, M. I. 14744
Smith, A. W. 14813
Spencer, Herbert 13953
Spence, A. T. 14794
Spencer, James 14814
Stevenson, W. J. 14299
Thomas, J. E. 14366
Thompson, H. A. 14855
Tipper, R. W. 14193
Towell, W. H. 14545
Trafton, Clarence 14368
Verstegen, H. M. 14002
Walker, R. G. R. 13955
Walker, Alex. 14050
Walden, G. J. 14079
Weaver, T. H. 14305
West, C. E. 14528
Whitehead, W. J. 14223
Wilcox, A. S. 14003
Wilson, J. H. 14306
Williams, J. M. 14490
Wilson, R. W. 14776
Wright, R. B. 13813

FOURTH CLASS.

Adams, J. H. 14974
Aikens, D. E. 14233
Almgren, C. F. 14723
Anderson, James 14549
Arthur, Andrew 14174
Austin, M. L. 14327
Augustine, B. L. 14532
Barrett, Thomas 13971
Bartell, A. G. 14102
Baldwin, G. F. 14640
Beaumont, T. H. 14329
Bellamy, John 14404
Beasley, Arthur 14550
Bianco, Riccardo 14528
Blake, William 14331
Boyd, C. A. 13973
Bolderston, W. H. 14010
Bowlay, Peter 14407
Bolton, N. F. 14642
Boyle, David 14999
Brown, J. O. 13929
Bragg, J. F. 14154
Branson, Bertram 14205
Bryant, L. P. 14236
Briscoe, Bryan 14332
Brown, Ivan 14410
Brown, H. E. 14753
Brubacher, Jones 14865
Bromley, H. A. 14906
Byrnell, F. E. 14905
Cadwallader, Francis 14532
Carroll, J. M. 14104
Case, E. N. R. 14533
Calhoon, A. L. 14552
Castel, C. S. 14554
Carlson, E. A. 14677
Cairns, Robert 14755
Carter, Henry 14884
Chapman, C. B. 14239
Chevalley, F. L. 14534
Christenson, A. L. 14644
Christie, G. M. 14016
Chatters, W. W. 14824
Clarke, T. E. 13930
Clark, Thomas 14017
Clemens, E. E. 14885
Cordwell, Richard 14090
Combs, G. L. 14106
Cox, F. A. 14242
Cookson, Thomas 14535
Conaboy, Martin 14555
Cole, R. R. 14725
Colthurst, Richardson 14756
Cobb, W. R. 14908
Cruttenden, James 14646
Cramb, H. W. 14757
Cummings, T. M. 14825
Davison, A. M. 14333
Daley, M. J. 14727
Davies, H. N. 14911

Fourth Class—*Continued.*

Dexter, Myrle 14108
Decou, W. W. 14244
Dean, A. A. 14826
Dickson, Thomas 14557
Dougan, Henry 14505
Doran, H. J. 14759
Drew, T. J. 14648
Duncan, Alexander 14837
Durbin, W. R. 14890
Elding, Joseph 14023
Erichson, Carl 14421
Erichson, A. P. 14596
Evans, R. W. 14422
Faulkner, George 14828
Farrelly, Daniel 14891
Ferguson, James 14731
Fitzgibbon, W. J. 14339
Figgins, A. J. 14829
Flynn, Thomas 13978
Fraser, J. J. 14651
Friend, C. R. 14684
Francis, Arthur 14947
Gardner, W. H. 14092
Gerrie, William 14559
Gillies, R. T. 14109
Gieschon, J. A. 14129
Gilpin, R. A. 14340
Gibson, D. B. 14832
Gordon, Thomas 14210
Gordon, W. G. 14804
Goostry, J. W. 13979
Griffiths, John 14429
Halifax, J. O. 13936
Hannah, H. J. 14026
Hay, J. S. 14110
Hackett, M. J. 14131
Hamblin, John 14184
Hardcastle, J. W. 14431
Hassell, Gilbert 14536
Harvey, W. H. 14655
Hannay, A. M. 14836
Herbert, Ben 14252
Hess, Norman 14254
Henrickson, August 14372
Hill, M. F. 13984
Hill, A. D. 14435
Hill, H. F. 14436
Hill, E. E. 14732
Holmes, R. G. 14583
Hornby, James 14599
Huff, A. M. 14064
Hussey, F. S. 14439
Ingham, J. W. 14111
Isaac, W. J. 14442
James, D. A. 14213
Jaeck, W. N. 14444
Jamison, C. D. 14764
Jenkinson, J. W. 14132
Jefferd, W. M. 14805
Jefferd, E. E. 14806
Jefferson, S. R. H. 14838
Jolly, Clement 14031
Johnstone, G. S. 14133
Johnson, A. C. 14159
Jobb, T. J. 14347
Johnson, Joseph 14558
Joplin, A. E. 14896
Johnson, J. A. 14916
Kelly, A. E. 14067
Kempe, John 14112
Keffe, F. R. 14349
Kean, T. M. 14565
Kellington, Frederick 14688
Kirk, J. M. 13986
Kirkland, John 14214
King, Earl 14113
King, Alexander 14262
Kolfer, James 14215
Kongelava, J. L. 14950
Kyle, Francis 14632
Lanodell, E. E. 13987
Langill, A. M. 14035
Lemon, L. J. 13988
Lewis, William 14036
Learmonth, James 14266
Lewis, J. P. 14539
Leclere, E. J. 14767
Livingstone, E. R. 14069
Lowe, W. F. 14038
Loyst, L. S. 14070
Lockwood, John 14840
Marcroft, J. E. 14138
Malcom, J. H. 14268
Manning, L. W. 14605
Maguire, A. W. 14768
Mason, Alfred 14769
Mawhinney, Mathew 14809
Mellish, H. P. 14842
Mitchel, A. M. 13943
Mitchel, James 13455
Middleton, Edmund 14454
Mount, Alfred 14114
Moore, B. A. 14270
Morgan, C. J. 14566
Morrison, R. H. 14607
Morgan, J. S. 14810
Moodie, D. C. 14898
Muir, J. A. 14115
Muling, Edward 14116
Munroe, Thomas 14662
Murphy, G. R. 14919
MacArthur, William 14139
McAlduff, W. E. 14845
MacArthur, Thomas 14953
MacPhee, L. D. 14699
McCaull, A. A. 14993
McCall, H. A. 14117
McCormack, Alex. 14516
McDonald, W. R. 14568
McEachern, E. A. 14954
McInnes, Howard 14275
McGilvary, G. A. 14072
McKenzie, M. J. 14216
McGoran, Andrew 14458
McKenzie, R. J. 14276
McHugh, Hugh 14459
McKibbon, Hugh 14462
McKim, Edmund 14463
MacLean, F. A. 14356
McLeod, J. M. 14569
McLaughlin, Martin 14771
McQueen, Dougald 14279
Nash, Earl 14280
Near, A. R. 14465
Nelson, A. T. 14118
Newman, Lauri 14281
Nelson, R. M. 14900
Nickerson, J. H. 14282
Osborne, John 14283
Pakenham, J. W. 14923

FOURTH CLASS—*Continued.*

Peachey, G. A.	13946	Swan, Alexander	14745
Peterson, Henry	13947	Taylor, G. W.	14301
Peterson, William	13948	Tabor, A. F.	14578
Peck, H. F.	14285	Thomas, J. H.	14302
Pierce, H. E.	14571	Theetge, Frank	14480
Pierce, F. R.	14701	Tipper, R. W.	13954
Pement, E. J.	14849	Towell, W. H.	14222
Philips, Lionel	14074	Tooker, W. A.	14367
Phills, Frank	14378	Treacher, Harry	14047
Phelps, M. A.	14703	Trueman, E. E.	14167
Porteous, William	14042	Van Horne, Wm.	14369
Price, E. E.	14572	Vernon, H. P.	14616
Ratz, J. E.	14359	Venables, W. P.	14796
Rae, William	14573	Vishe, Geo.	14077
Reed, O. P.	14467	Vick, Tilman	14120
Renwick, R. W.	14957	Watson, J. L.	14048
Riley, E. J.	14468	Walker, Thomas	14049
Ritchie, T. W.	14924	Walker, Alexander	14050
Roth, H. A.	13997	Waite, James	14078
Ross, Edward	14043	Walton, C. W.	14147
Roberts, David	14099	Walgren, F. D.	14486
Rockwell, G. H.	14142	Wardrope, John	14617
Rogers, E. G.	14189	Watson, Charles	14775
Rodgers, John	14612	Weicker, Nicholas	14529
Roberts, A. C.	14706	Welburg, Augustus	14618
Robertson, Arthur	14852	Westburn, Norma	14714
Rousseau, Alexander	14853	White, Samuel	13956
Roseborough, L. M.	14925	White, Thomas	14169
Schiebler, W. J.	14574	Williams, J. M.	13957
Scott, G. A.	14708	Wilson, D. E.	13958
Selby-Hele, John	14544	Willoughby, F. E.	14080
Sheppard, W. F.	14474	Williams, S. E.	14194
Silver, W. H.	14100	Wilson, William	14225
Simpson, F. L.	14665	Winks, C. W.	14307
Skelhorne, F. S.	14576	Wight, John	14857
Smith, John	14000	Williams, Curil	14858
Smith, C. W.	14191	Wilson, Edwin	14859
Smith, G. L.	14295	Woodcock, M. G.	14148
Smith, E. J.	14476	Wood, Herbert	14619
Sorley, H. C.	13952	Woods, O. N.	14620
Somerville, L. H.	14577	Worth, A. J.	14635
Sproule, V. R.	14298	Wood, E. T.	14931
Spruston, J. W.	14524	Wright, C. L.	14582
Strachan, W. R.	14477	Wray, Richard	14815
Stuart, A. G.	14478	Yeatman, S. G.	14779
Stone, Herman	14959	Yorston, J. M.	14098
Sundal, O. T.	14363	Young, M. J.	14196
Sutherland, C. W.	14927	Young, C. P.	14932

SPECIAL LOGGING-DONKEY.

Amat, Robert	14202	Emmett, W. H.	14730
Anderson, H. W.	14056	Ferguson, Peter	14423
Anderson, G. F.	14398	Fodchuck, Mike	14209
Anderson, James	14399	Fowler, L. M.	14831
Armstrong, R. D.	14101	Fulkerson, David	14426
Barrett, W. J.	14590	Giannini, Angelo	14269
Ball, Thomas	14641	Gibson, Robert	14560
Barclay, W. J.	14819	Gorsky, J. J.	14784
Bowers, Clyde	14088	Grimes, M. P.	14835
Bruce, A. D.	14501	Halliday, J. E.	13935
Byrnes, Edward	14175	Halnon, William	14025
Cameron, J. C.	14057	Haikala, Eino	14182
Carlson, Albert	14176	Haslem, N. K.	14997
Carpentier, J. B.	14238	Harris, Herbert	14561
Carr, Luther	14823	Hart, Ernest	14785
Cleaton, W. F.	14089	Henderson, M. R.	14251
Clausen, Andy	14240	Hewitt, Charles	14374
Clarke, W. F.	14724	Horsting, Henry	14255
Conroy, Roger	14503	Johnston, William	14348
Davidson, Bruce	14243	Jones, A. H.	14734
Dowd, James	14682	Kilby, A. K.	14766

SPECIAL LOGGING-DONKEY—*Continued.*

Keloma, Leonard	14446	Pool, William	13965
Lecerc, E. J.	14093	Robertson, D. A.	14220
Lemon, W. D.	14161	Robinson, F. A.	14470
Lea, B. T.	14265	Ross, K. A.	14664
Leeming Charles	14267	Rush, Thomas	14290
Lindberg, Alex.	14511	Saaf, J. E.	14742
Lidstone, W. A.	14737	Sampson, E. W.	14939
Lyons, W. K.	14693	Schaffener, T. E.	14045
Marinello, Pietro	41935	Setness, John	14709
Mikshus, John	14515	Shearer, W. G.	14075
Minotte, Joseph	14787	Simpson, G. L.	14292
Miller, John	14789	Sollaway, A. R.	14296
Morgan, G. W.	14790	Stavin, Peter	14926
Moore, S. A.	14791	Sundquist, C. H.	14300
McBean, Mary L.	14846	Tollson, W. E.	14711
McDonald, James	14376	Truelove, W. T.	14483
McDonald, D. P.	14847	Verch, F. W.	14746
MacGregor, J. R.	14936	Virostko, John	14712
McIntosh, T. C.	14040	Vincent, John	14817
MacLean, C. H.	14277	Watkins, H. R.	14856
McTaggart, W. A.	14570	Willis, John	14580
Nichols, C. H.	14633	Williams, J. H.	14797
North, F. O.	14377	Williams, Walter	14798
O'Connel, M. G.	14937	Wollsey, G. E.	14097
Omand, J. A.	14700	Wright, R. J.	14052
Parker, G. D.	14358	Yeatman, F. A.	14717
Palmer, G. B.	14518	Zailo, George	14226
Parker, W. E.	14848		

SPECIAL HEATING.

Allen, H. E.	14783	Holman, Thomas	14786
Andrews, D. G.	14401	Lewis, F. L. V.	14351
Armour, W. P.	14234	Leask, John	14353
Barker, Laurence	14403	Linder, J. E.	14450
Barry, E. J.	14499	Lowden, V. H.	14604
Baker, L. A.	14589	Long, W. J.	14692
Baker, L. A.	14675	Menelaws, George	14453
Bannister, F. R.	14752	Miholm, J. C.	14788
Berry, Arthur	14125	Moorland, H. G.	14661
Boyd, J. P.	14408	Muir, David	14792
Brown, George	13975	McDonald, H. C.	14871
Burnell, G. F.	14014	MacKay, Donald	14461
Bubu, T. H.	14754	McLennan, D. J.	14772
Cannon, J. K.	14412	Neilson, B. H.	14517
Chiffy, W. H.	14415	Reed, John	14521
Chester, Levi	14678	Riddle, G. W.	14741
Copeland, B. M.	14629	Roby, A. C.	14634
Daft, I. G.	14419	Stone, J. A.	14615
Ellis, C. H.	14336	Sutherland, Frederick	14364
Exley, J. W.	14337	Thornton, Clifford	14046
Fill, James	14668	Thompson, Peter	14365
Halliday, William	14430	Turnbull, Joseph	14526
Hardy, A. W.	14508	Vinnocomb, E. W.	14713
Hislop, John	14345	Voigt, J. F.	14485
Hislop, J. W.	14915	Whittle, Thomas	14489
Howlett, John	14600	Wetherall, George	13855

SPECIAL CREAMERY.

Bates, H. F.	13928	Johnston, W. S.	14602
Graham, C. E.	14373	Naud, Daniel	14094
Jenne, H. H.	14601	Valentine, F. D. W.	14666
Johnson, Alfred	14659	Wickham, Stanley	14621

SPECIAL DOUKHOBOR.

Fillipoff, M. F.	14597	Podovinnikoff, F. N.	14873

SPECIAL ROAD-ROLLER.

Bayne, G. A.	14588	Tait, J. A.	14096
Brubacher, Jonas	14592		

SPECIAL THRESHING.

Gray, E. E. 14427

TEMPORARIES.

Allen, William 14586
Anderson, W. J. 14313
Armstrong, William 14386
Armour, S. M. 14878
Austin, Alexander 14315
Baker, W. H. 14585
Baker, Fred 14622
Black, Thomas 14316
Boden, J. C. 14231
Boulay, Peter 14308
Bowler, A. G. 14389
Brewin, E. V. 14173
Carpenter, W. L. 14314
Chisholm, A. L. 14636
Cluff, J. T. 14197
Clay, F. S. 14780
Conaby, Martin 14151
Cornell, R. E. 14747
Craddrick, Ray 14053
Currie, H. B. 14879
Czoben, John 14317
Dalvelle, J. S. 14491
Dahany, P. J. 14318
Douglas, G. S. 14379
Downton, G. H. 14121
Drost, P. G. 14902
Dubord, Ferdinand 14800
Duck, A. G. 14933
Elmslie, Albert 14007
Everson, J. A. 14198
Fagan, J. B. 14637
Findlay, W. A. 14816
Flinn, Harry 14801
Fort, Joseph 14671
Gerrie, William 14381
Gibson, W. C. 14623
Grindrod, Albert 14085
Greenard, R. F. 14940
Harmer, H. J. 14086
Harrison, S. W. 14319
Hardman, Sampson 14390
Hayhurst, Arthur 14531
Halligan, William 14650
Hepburn, A. C. 14385
Hilton, Edmund 14320
Hill, S. E. 14624
Hill, J. A. 14718
Hinton, Herbert 14860
Hookes, R. E. 14005
Howard, Bernard 14494
Hodgson, A. R. 14546
Hunter, Edward 13967
Isbester, T. F. 14054
Jarratt, Edward, ... 14321
Johnson, H. J. 14322
Ketchell, H. F. 14380
King, H. G. 14045
Kirkland, William 14495
Kliben, David 14150
Knowlan, W. F. 14232
Knights, A. A. 14492
Leith, G. H. 14547
Lewis, Henry 14326
Linn, William 14638
Lovegren, Ole 14941
Lynn, William 14638
Maxwell, David 14087
Marston, E. P. 14149
Menard, N. A. 14881
Moran, P. J. 14199
Morrison, Angus 14230
Morgan, A. R. 14310
Mooney, W. C. 14748
Mullany, A. K. 14669
McCarthy, J. J. 14584
McCallum, W. H. 14625
McDonald, W. A. 14382
McDonald, M. P. 14391
McGinnis, J. W. 14861
McIntosh, W. D. 14802
McKenzie, J. M. 14749
McLeod, G. C. 13926
McLean, D. H. 14673
McLean, Sinclair 14750
McLennan, William 14862
McNeill, Henry 14670
McWilliam, Robert 14324
Nelson, Kristian 14083
Oswald, J. S. 13968
Parsons, F. C. 14227
Paton, A. R. 14496
Parkinson, Thomas 14719
Perkins, R. E. 14312
Pettis, W. C. 14672
Pearce, N. R. 14626
Pike, William 14627
Pottruff, W. H. 14152
Rae, William 14311
Read, E. F. 14323
Reeves, Edward 14392
Ritchie, J. S. 14493
Roche, Thomas 14721
Rudland, J. W. 14383
Roadnight, George 14387
Russell, James 14393
Selby-Hele, John 14394
Shaw, James 14084
Silvernail, Neil 14799
Smith, A. L. 14006
Smith, W. M. 14229
Smyth, F. J. 14880
Squarebriggs, P. J. 14008
Summer, Ernest 14172
Symons, C. H. 14200
Taylor, C. H. 14395
Tarry, John 14639
Theetg, Frank 14309
Thomas, G. H. 14781
Thornton, Clifford 14863
Till, J. C. 14903
Tompkins, Joseph 14674
Turner, C. H. 14228
Vaughn, Arthur 14325
Wainwright, W. J. 14081
Walker, Thomas 14082
Westcott, G. C. 14548
Whincup, W. H. 14936
Wille, R. L. 14384
Wilson, J. S. 14388
Wilks, E. F. 14720
Williams, T. J. 14751
Young, Edward 14123

REPORT OF INSPECTOR OF ELECTRICAL ENERGY.

OFFICE OF INSPECTOR OF ELECTRICAL ENERGY,
COURT-HOUSE, VANCOUVER, B.C., August 1st, 1921.

J. E. Griffith, Esq.,
Deputy Minister of Public Works, Victoria, B.C.

SIR,—I have the honour to submit the following report on the work of this office for the year ending March 31st, 1921:—

GENERATING PLANTS.

During the year five electrical generating plants of small capacity have been put in operation for the first time, bringing the total number now operating in the Province to 100. In three instances additional generating units have been added to existing power-stations, bringing the total generator capacity up to approximately 244,000 k.v.a. There are now sixty-three plants engaged entirely or in part in giving a public supply of electrical energy, and thirty-seven plants operated solely for electrical supply to factories, mills, pulp plants, mines, etc. There are forty-four plants operated by water-power, forty-six by steam-power, and ten by internal-combustion engines. Hydro-electric plants represent by far the largest proportion of the station capacity, 77 per cent. of the total installed k.v.a. generator capacity being of that type.

The harnessing of the water-powers of the Province for the production of electrical energy continues to progress and several power developments are at present under way. The Bridge River Power Company, following upon a change in financial control, commenced work during the year on the Bridge River project. Preliminary work on the location of the power-house and dam-site has been undertaken and field-survey work on the contemplated flooded area above the dam-site has been carried out. This is one of the largest possible developments in British Columbia and its completion will furnish an important industrial asset throughout a large portion of the Province. With the increase in population and industrial development in the Vancouver District, utilization of power there from the Bridge River may be necessitated, and it is also expected that this power-development will attract to within its territory various industries requiring large amounts of electrical energy at low rates for special manufacturing processes. The development will be undertaken in two or possibly three stages, the initial stage giving approximately 60,000 horse-power and the final and complete development approximately 300,000 horse-power.

Preliminary work is also being carried out in the development of electrical power on Bull River at a point about 20 miles east of Cranbrook. The water-power rights there have been acquired by the British Columbia & Alberta Power Company, Limited, which contemplates giving a supply of electrical energy in bulk throughout a territory extending from the Sullivan Mines at Kimberley to Blairmore in Alberta. Contracts are at present under negotiation with the Cities of Cranbrook and Fernie and with the colliery companies operating at Coal Creek, Michel, and Corbin. About 140 miles of transmission-line at 66,000 volts will be constructed, of which over 100 miles will be in British Columbia. Preliminary plans have already been submitted to this office, and it is expected that the development will be completed by the end of 1921. The same company also proposes developing other powers in its territory and tying these in with the Bull River system. The supply of electrical energy at low rates in the eastern section of British Columbia will do much to stimulate development there. With the increasing difficulty attending the remunerative operation of the small steam plants in Cranbrook and Fernie, it is expected that with the purchase of electrical energy in bulk, and the discontinuing of their own steam-driven plants, financial improvement in the electrical-supply departments in these cities will result.

The extension of the high-voltage transmission-line system of the West Kootenay Light and Power Company, Limited, from Greenwood to Allenby, and mentioned in my previous reports, has now been completed. The construction of this line was followed by this office throughout its progress, and its completion has constituted a notable addition to the electrical transmission-line

systems of the Province. While the principal objective of this line has been the plant of the Canada Copper Corporation at Allenby and Copper Mountain, its construction through the Southern Okanagan and Similkameen Districts conveys an added potentiality to these regions. The local supply company at Princeton has discontinued the operation of its steam plant and now purchases electrical energy in bulk from the West Kootenay Light and Power Company over the above line.

This company has an additional scheme of expansion in view leading towards electrical supply in the various towns in the Okanagan Valley. A contract has been made with the City of Penticton, and others are in negotiation with the City and Municipality of Summerland, the District of Peachland, and the Cities of Kelowna and Vernon. By the close of the present year it is expected that the company will be supplying the City of Penticton over a branch line connected with the Princeton high-voltage line. The West Kootenay Light and Power Company, being in possession of the splendid power resources at Bonnington Falls, has done much in the past to further the development of the Boundary country, and the extension of its field to the Similkameen and Okanagan Districts may also be expected to give an important impetus to development there.

During the year under review the Western Power Company of Canada, with its power plant on the Stave River and its extensive transmission-line and distribution system, has passed to the control of the British Columbia Electric Railway Company, Limited. With this change the development of the former company's second power-site on the Stave River is brought nearer to accomplishment, as the power there available will be necessary for the supply of the constantly increasing demand on the system of the British Columbia Electric Railway Company, Limited.

With the development of the British Columbia & Alberta Power Company's system in the eastern section of the Province, and other extensions and approaching developments mentioned above, indications are that the time is not far distant when the whole width of the Province from the Coast to the Alberta boundary will be traversed by high-voltage transmission-lines.

TRANSMISSION AND DISTRIBUTION.

In addition to the transmission-line work mentioned above, several short sections of 34,000- and 60,000-volt lines have been constructed by the British Columbia Electric Railway Company, Limited, in Vancouver and Victoria Districts, and also several extensions at 11,000 volts to consumers requiring large amounts of power have been built. With the curtailment of building operations during the year, the amount of extension of distribution-lines at voltages under 10,000 volts has not been great, being confined to short extensions in suburban and outlying districts. Farmers and rural municipalities continue to evince an appreciation of the advantages of electrical supply, as evidenced by the additional extension of the British Columbia Electric Railway Company, Limited's, lines in the Fraser Valley and Lulu Island Districts.

All new overhead-line construction now being carried out in the Province is of a much-improved standard, especially in the case of the work done by the larger companies. Our rules on overhead construction are now in the hands of all power companies and cities owning overhead wires. In the case of smaller companies and municipalities, there has been an increased appreciation of the importance of employing qualified linemen periodically, if not permanently, and this has resulted in a remodelling of much of the overhead-line work. New poles have been set, wires pulled up, and corner poles recross-armed and rewired, resulting in an improvement in safety both to the public and to employees, and also in considerable improvement to the appearance of many streets.

There are now approximately 2,600 miles of power-transmission and distribution lines in the Province.

UTILIZATION EQUIPMENT.

This includes all electric motors, machinery, apparatus, etc., supplied or operated by electric current for the production of power, heat, light, etc. Power equipment of 220 volts and over has, as usual, received more attention than lower voltage wiring and equipment. There is now an installed capacity of electric motors in the factories, workshops, sawmills, pulp-mills, etc., of the Province totalling approximately 200,000 horse-power. It has been in connection with this electrical equipment that probably the greatest advancement and improvement in installation practice has been made during the past year. A large amount of renovation of existing wiring and installation has been made. All defective power-wiring, open switches, fuses, etc., and faulty

distribution of circuits have been remedied immediately upon being revealed by inspection, and new work is now being carried out in accordance with the safety requirements of this office as enacted both under the "Workmen's Compensation Act" and the "Electrical Energy Inspection Act." The use of externally operated switches for all circuits of 220 volts and over is now universal in all new installations throughout the Province, and the elimination of all previously installed old type switches is progressing. In reinspection of old power-wiring, especially in outlying districts, we have not always called for complete remodelling in accordance with present-day standards, but have in some cases found the demands of safety to have been satisfied by the remedying or replacement of dangerous features.

RULES AND INSPECTION.

An extension of existing rules has been prepared to cover the particular hazards arising in power-houses and will be issued in printed form during the coming year. Since the preparation of our rules on overhead-line construction the third edition of the National Electrical Safety Code has been issued, and following on minor modifications suggested by that Code, our overhead rules will also shortly be obtainable in printed form. These rules have been circulated in preliminary form for some time and appear to satisfactorily cover the different forms of construction found in various places through the Province. In their bearing on existing construction it has not been found possible to stipulate a definite period within which conformity to the rules shall be given, but special orders will be issued from time to time calling for removal of particular hazards.

The work of the office has increased considerably during the past year in the direction of covering by inspection electrical plants and wiring of lower voltages than those hitherto considered as requiring the attention of the office. This has been necessitated for various reasons, one being that while fatal or serious accidents at lower voltages rarely occur, still minor accidents have resulted, and our present system of recording and investigating all such accidents has brought into prominence the necessity for frequent guarding of equipment down to voltages as low as 110 volts. Further, we have found it necessary to give attention to the fire hazard which may be produced by defective wiring, both in industrial and commercial premises and in residences. In pursuance of this a large number of inspections of old wiring at 110 volts has been made throughout the Province and orders issued for removal of all defective features.

All cases of fires allegedly caused by defective wiring have been reported to this office and investigated and reports issued.

It is our intention to issue a set of regulations governing low-voltage wiring, and along the lines of the National Electrical Code. We have made this Code, supplemented by our additional specification which we have issued, the basis of our requirements, and have had discussions with the National Board of Fire Underwriters regarding modifications to the Code to include our special requirements. Our original intention was to issue a complete Code, different entirely in arrangement, and to a great extent in substance, from the National Electrical Code, but due to the latter having established itself in electrical-wiring practice throughout the country it has been decided to use it as a basis.

Inspection of installations in outlying municipalities is now more in hand through the co-operation of the Municipal Councils, but considerable difficulty is still experienced in getting in touch with all installations previous to commencement. Until such time as we are in a position to initiate a complete permit system for all electrical wiring, it is inevitable that some residence wiring in outlying parts of the Province may temporarily escape supervision. The incurring of the expense which would be entailed in inspecting all installations of 110-volt wiring in outlying parts of the Province is, we consider, in many cases at present not warranted. Our system by which we insist on obtaining the approval of the Department for construction of pole-lines on Provincial highways, and the issuing of permits for such, continues in satisfactory operation and records are kept of all such lines.

ACCIDENTS.

The following are the electrical accidents reported and investigated throughout the year:—

Occupation.	Place.	Date.	Cause and Remarks.
		1920.	
Repairman	Britannia Mines	April 11	Working on locomotive with power on; flash in eyes.
Helper to chief operator	Western Power Co. of Canada	„ 13	Ladder came in contact with high-voltage wire; result fatal.
Machine operator	Lumber Products Co.	„ 29	Defective switch; burned hand and eyes.
„	„ „	June 12	Burned hand on switch.
Switchman	Britannia Mines	July 19	Caught hold of trolly-wire; severe shock.
Lineman	B.C. Electric Railway Co., Ltd.	„ 24	Short circuit on switch on pole; burned hands and face.
„	Consolidated Mining & Smelting Co.	Aug. 3	Severe burn to hand and thigh.
Operator	„ „	„ 15	Operating rectifiers; severe shock and burn.
Electrician	Canadian Puget Sound Lumber Co.	Sept. 16	Lead burning; injuries to eyes.
Mine employee	Belmont-Surf Inlet Mines	„ 21	Faulty operation of knife-switch; burned right hand and flash to eyes.
Labourer	Ocean Falls	Nov. 18	Short in switch; right wrist burned and flash in eyes.
Boy	New Westminster	„ 27	Defective key-socket; fatal.
		1921.	
Operator	B.C. Electric Railway Co., Ltd.	March 10	Eyes burned, due to flash.
Lineman	City of Kamloops	„ 30	Came in contact with 2,300-volt wires on pole; fatal.

GENERAL.

During the year under review a considerable amount of attention has been given to the proposal to have electrical contractors and electricians subject to a Provincial licence. In pursuance of this, meetings and discussions have been held with various electrical organizations affected and a study has been made of corresponding legislation elsewhere. Our draft of the proposed measure has been much discussed, but several sections have failed to meet with general acceptance. It is considered that such legislation, if enacted, would operate widely as a safety measure in addition to contributing to ensuring a higher standard of electrical-installation work, especially in the outlying parts of the Province. This matter is receiving further attention and it is hoped at a later date to present an improved draft of such a scheme of licensing.

The Code of Lighting which was prepared last year has been made the basis for a number of installations, with satisfactory results, and the matter of designing and laying out new schemes of illumination now shows a tendency to be undertaken on a more satisfactory basis. A considerable amount of educative work, however, is necessary, preparatory to a general appreciation of the importance of adequate illumination. In a large number of cases it has been found that lack of adequate provision of sufficient lighting when wiring installations have been made has resulted in both life and fire hazards through overloading of circuits and unauthorized extensions to wiring. The Code will be issued in slightly revised form at an early date.

The usual amount of advisory work on electrical matters outside the scope of the "Electrical Energy Inspection Act" has been carried out during the year for the office of the Supervising Architect, Fire Prevention Officer, Inspector of Dykes, the Workmen's Compensation Board, and other offices and departments.

I have etc.,

J. MUIRHEAD,

Inspector of Electrical Energy.

REPORT OF INSPECTOR OF FACTORIES.

VANCOUVER, B.C., March 31st, 1921.

Hon. J. H. King,
Minister of Public Works, Victoria, B.C.

SIR,—In submitting another annual report of this Department, it is rather difficult to state anything that is new or original and at the same time to avoid a sameness with other reports, as our duties are to a certain extent of a routine nature.

The safeguarding of dangerous machinery forms one of the most important features of factory inspection. Good judgment is required when ordering guards to be installed; the hazard has to be determined and the guard so arranged that it will not interfere with production. This at times presents rather a complex problem, and quite frequently means that we are called upon to design a guard which will at times be automatic and positive in action, and when installed will comprise a self-contained piece of machinery.

As our duties require us to inspect all sorts of industries, it follows that we are required to have at least a technical knowledge of the process of all the manufacturing industries of the Province. Possessed of this knowledge, it enables us to discuss with the management and employees, from the humanitarian as well as the monetary point of view, the problems in guarding against hazards which confront the industry.

In our previous reports we have stated that each succeeding year has brought improvement in the working conditions of the industrial employees of the Province, and the year just closed has shown a marked improvement in that respect. This is due in no small measure to the co-operation with us of the various foremen and executives of the industries over which we have jurisdiction. Without this co-operation we would be unable to get the results for which we are striving.

As new industries are being established and additions to the older plants being made, it is obvious that our duties have multiplied to a corresponding degree. Notwithstanding this additional work, no increase in the number of the staff of this Department has been made. This difficulty, however, could be overcome by the placing of an automobile at the disposal of this office. At present we are dependent on local transportation service to convey us to the numerous plants, and it naturally follows that a great deal of time is lost that otherwise would be saved. An automobile would be of more service to us than an additional Inspector.

ELEVATORS.

The duties of this Department do not end with the responsibility of looking after the safety and welfare of the workmen employed in the factories throughout the Province, but we are charged with the further responsibility of being the custodians of the public's safety in so far as enforcing the rules and regulations pertaining to the upkeep and operation of passenger-elevators is concerned. When it is realized that thousands of persons are carried daily by this means of conveyance, it will be admitted that it is most desirable to adopt all practical safeguards.

One of the most beneficial pieces of legislation respecting the operation of passenger-elevators was the amendment to the Act whereby it was made compulsory for the operators to pass an examination before being granted a licence to operate an elevator. That this is an effective method of preventing accidents is most conclusively proven by the fact that we have not had to investigate a single accident caused by passenger-elevators during the past year. Notwithstanding the fact that elevators are placed in charge of competent operators, these employees are only human, and should they momentarily forget to perform the duties required of them a serious or fatal accident is frequently the result.

As stated in my last report, statistics and our own past experiences show that the majority of accidents occur at the elevator landings when passengers are entering or leaving the car, and as the large majority of elevator installations in British Columbia are of such a nature that the car can be started before the doors are closed, there is always the possibility of the chance-

taker (and they are numerous) attempting to board a car after it has started. The inevitable result of such an action is to be crushed either between the car platform and the top of the door-frame when the car is ascending, or between the top of the car and the floor when descending.

The statistics of fatal elevator accidents occurring in Canada and the United States show that 43 per cent. of the victims are killed by falling down the shaft and 42 per cent. by being crushed by the car. The only practical and effective method of preventing accidents of this nature is to equip all passenger-elevators with an electric or mechanical interlock, so arranged that it will prevent the operation of the car before the door or doors are closed and locked.

HOURS OF LABOUR.

As the hours of labour in certain industries are limited, a great many night and early-morning inspections have to be made in order to see that the law is being observed. The amendment to sections 3 and 66 of the "Factories Act," which was made at the 1920 session of the Legislature, and which relates to the hours in which a laundry may be open for business, was the means of taking up a great deal of the time of this Department. The proprietors of the Oriental laundries in this city engaged legal counsel to contest Police Court cases which, after inspection, were brought against them for violation of the Act. Before some of the owners of these laundries were convinced that the law governing the operation of laundries must be adhered to, it was necessary to prosecute them several times before a strict observance of these provisions was attained. We were early convinced that if for any reason we were unable to devote sufficient time for these inspections the law would be ignored and they would work an unlimited number of hours. In this connection some seventy prosecutions have been made and fines amounting to $1,167 imposed.

The law governing child-labour and the employment of young girls and women in factories for more than eight hours in one day or more than forty-eight hours in any one week has been rigidly enforced, no prosecutions being necessary for violation of these sections of the Act.

With regard to sanitation, ventilation, and lighting, these important matters have been given our constant surveillance, and where alterations and improvements were found necessary instructions for same have been issued from this office.

In conclusion, I wish to thank you and the Deputy Minister for the courtesy and encouragement shown this office throughout the year.

Yours obediently,
R. J. STEWART,
Factories Inspector.

INTERIM REPORT OF INSPECTOR OF DYKES.

OFFICE OF INSPECTOR OF DYKES,
VICTORIA, B.C., August 1st, 1921.

J. E. Griffith, Esq.,
Deputy Minister of Public Works, Victoria, B.C.

SIR,—In accordance with your instructions, herewith is an interim report of the Department of Dykes for that part of the year 1920–21 ending July 31st, 1921. As our year does not close until September 30th, some of the details must be approximated.

Under the provisions of the "Dyking Assessments Adjustment Act, 1905," this Department is made responsible for the control, as to operating, maintaining, and managing, etc., of the dyking-works in the Dyking Districts of Coquitlam, Pitt Meadows No. 1, Pitt Meadows No. 2, Maple Ridge, and Matsqui. This control includes all engineering-work with regard to renewals, maintenance, and improvements, as well as assessing the lands benefited, and collecting upon these assessments so as to reimburse the Government for expenditures with regard to capital charges and also their advances with regard to maintenance.

Subsequent legislation brought the Matsqui Drainage District into being under the Department and named the Inspector of Dykes as Commissioner to the drainage scheme. As this scheme has nothing in common with the dyking districts, I will treat with it separately.

With regard to the control, etc., of the dyking districts, this may properly be treated under two heads—viz., Finance and Works.

(1.) FINANCE.

The total capital charges against these districts were, in 1905, $345,252, and assessments are so arranged that the Government will have been reimbursed $220,252 of this amount by 1945, and the balance, $125,000, on account of Matsqui District, by 1948. These charges form a part of the annual assessments.

The maintenance charges, which are advanced throughout each year by the Government, are apportioned against the lands benefited during that year and are payable on December 31st each year.

However, owing to the financial situation arising supposedly from the last war, provisions were made by Orders in Council permitting two years in arrears to accumulate, so that the above reference does not strictly apply. In this connection it is worthy of note that not all the land-owners took advantage of this allowance, and also that lands which are primarily farm lands should be better able to pay these charges when the prices for farm produce are at the peak. These charges make up the remainder of the annual assessments.

Collections.—Collections from all sources to July 31st, 1921, were $42,341.12, as compared with $32,171.55 for the similar period to July 31st, 1920.

Expenditures on Maintenance Account.—Efforts have been made to reduce the expenditure on this account without reducing the benefit, and in so far as the present organization permits has met with a fair measure of success. A slight reorganization can be effected which will increase the efficiency very considerably, though I have not had time as yet to compute the ratio. This will be dealt with more fully in a summary at the end of this report.

The total expenditures on account of maintenance up to July 31st, 1921, have been $20,177.34, as compared with $31,368.35 for the similar period up to July 31st, 1920, and the following will show how this is made up and its application to each district:—

Expenditures—Strictly Maintenance.

	To July 31st, 1919–20.	To July 31st, 1920–21.
Matsqui	$15,741 77	$ 8,874 04
Maple Ridge	7,840 03	5,737 37
Coquitlam	3,570 95	3,274 09
Pitt Meadows No. 1	2,137 29	930 42
Pitt Meadows No. 2	2,078 31	1,361 42
Totals	$31,368 35	$20,177 34

From the above it will be seen that a saving of $11,191.01 has been effected, which has not in any way interfered with pumping and other services.

A complete audit has been going on in the Department and their report on the finances should be to hand for the Inspector's Report at the end of the Department's year.

(2.) WORKS.

The dyked lands under this Department total some 24,142 acres, excluding the drainage district, which area is protected by nearly 42 miles of dyke.

Seven pumping stations house twelve pumping units which give drainage facilities to this area when the water-level in the rivers makes pumping necessary.

The works, then, of the Department are quite varied in character and concern the defence-line of the dykes, as regards maintenance, protection, etc.; pumping, as regards upkeep and operation; and the lands behind, as regards their condition and the general benefits anticipated when these breastworks were constructed.

During the part of the year to which this report refers, no work except emergency work or work in the best interests of efficiency has been undertaken. Some work was done in all districts before flood-time as precautionary measures, even though available information led to the belief that extreme high water would not be encountered in the Fraser Valley this year.

Such work as was done was only to strengthen weak places, and then only as much as was considered absolutely necessary; so that in every district there is considerable work which should be done just as soon as conditions lend themselves to the interests of economy.

Flood-time Precautions.—Proving conclusively that the pulse to flood-time conditions is prevailing temperature and not previous precipitation, the river rose this year to the highest level since 1903. This was because the high temperature in the Interior brought some of the Rocky Mountain snow-water out before that from the Coast Range had been accommodated.

Not expecting such conditions, but anticipating the worst, an organization was established similar to that in the Miami Conservancy District on the Mississippi River. Meetings were held in the districts and patrolmen who were held high in the confidence of the people interested were named to the Inspector of Dykes, who afterwards put these men on the patrol force. These meetings acted as bracers to the people, restored their confidence, and served to assure them that when danger threatened the necessary thing to do would be done. A double post-card, asking for a statement of the number of sacks one had available and willing to supply at cost, was sent to each land proprietor, and served the same purpose as well as saving the expense of carrying a large number of these in stock. Some 12,000 sacks were on hand, and these, together with wire fencing and cable, were distributed to points of vantage, and a wagon was always loaded with sheet lumber with a team and driver who was to deliver this wherever needed with all possible speed. Railway companies crossing in close proximity to weak places were asked to slow down their trains and did this conscientiously. As soon as the river reached the stage where precautions were necessary the patrolmen who had been previously selected went on duty and kept up a night-and-day patrol on all weak sections until the danger disappeared.

Weak sections may be taken as existing all along the Matsqui defence and in a few special places in each of the others. On the whole, these weak sections are due to poor material and in a few special cases to poor construction. Further mention is made of these conditions under "Seepage." The cost of this organization, patrol, and emergency work was $1,400.98, which was more than justified by results.

Seepage.—Seepage in variable proportions exists generally wherever the weak sections referred to above are found. The amount of seepage varies as the water-level attained in flood-time (head) and as the time of duration of such flood. This latter variable is due to the saturated condition of the foundations, which are set up in sandy loam structures, with the application of moisture and pressure.

Mention has been made of the weak sections existing practically all along the Matsqui defence. This is due to poor material and poor construction. The material is a sandy loam and slough-beds which should have been crossed by close-piling the dyke on either side were crossed without any piling. In addition to this, the material for the "fill" of the dyke was taken from a borrow-pit on the wet side of the dyke. In "cutting" for this material the impermeable top soil was removed and a porous strata was unearthed, and also the head of water increased by an average of 5 feet, which on top of normal flood heights amounts to

considerable pressure: the seepage assumes percolation proportions and cutting action is set up. Therefore it is increasing each year. The accumulation of seepage-water increasing in quantity each year, fills hollows in the land back of the dyke and drowns out vegetation. An aggregate of 130 acres was made valueless on this account this year, and in all fairness this area should not participate in the costs of maintenance until it is allowed to become productive. The remedy lies in filling in the borrow-pit in front of the dyke.

Having regard to interests other than those of the farmers being menaced by the safety or lack of safety of the dykes, the management of the Canadian National Railways and that of the Canadian Pacific Railway were approached.

The engineer who located the Canadian National Railways' main line admitted that he was able to lower his grade an average of 2 feet in crossing the Prairie because of the existence of the dyke, and the management manifested some interest. They signified their willingness to contribute $5,000 towards the work of filling the borrow-pit, and upon being told that this amount was not worth consideration, sent a special engineer from Winnipeg to investigate. His report is not yet available. The Canadian Pacific Railway are situated somewhat differently, their grade being higher, but it is just possible that they might help as a matter of policy, which also applies to the British Columbia Electric Railway Company, Limited.

This problem is a very important one with the Department and it is hoped that something may be done before another flood-time.

As soon as time permits a thorough survey will be made so that an estimate of the cost may be arrived at. Endeavours will be made to further interest the railway companies crossing the Prairie.

The farmers have manifested great interest in this scheme, and some of them, notably Alex. Cruickshank, have been most energetic and most helpful in the solution of this and other troubles.

In addition to this, there is a constant source of danger at and around No. 1 sluice-gate, where the slough cuts the same porous strata. Seepage here was supposed to come down from the natural surface of the ground and through under the dyke under pressure, and the cutting action was alarming. This was carefully observed during the rising stages of the flood, and the writer is satisfied that the water is forced through the layer of porous strata unearthed by the natural cutting of the slough and not from the surface. The remedy here is to trench along outside the dyke through this strata and seal it with clay. This could be done at a small expense, as the distance involved is not great, and it is believed a permanent solution of the trouble could be effected.

With regard to seepage troubles on other fronts, these are known and receive the necessary attention, but owing to the more stable soil content in the embankments no real danger threatens, and it is only a case of prompt action being necessary and careful watching at flood-time.

Brushing.—In every district brush has been allowed to grow on the dykes until now the cost of removing it will be large. There is no question as to the objectionable features of brush-growing on the dykes. It encourages weakness by making additional attractions for rats and tends to loosen the embankment by the growth of their roots, at the same time preventing a thick grass sod from forming. This is very important in sandy loam structures such as is found in the Matsqui Dyke and in some parts of the others.

Only such brushing was done during the year as would allow for better watching weak places during flood-time.

In cases where cut-off ditches, which were intended to relieve the pumps and which ceased to function because of the growth of brush and other obstructions, brushing and cleaning was done in the interests of efficiency. The cost of this work is made up in smaller pumping charges and better service.

With the necessity of doing some 15 miles of brushing on the dykes in the near future, and the comparatively high rate of wages still in force, it would almost be advisable to herd a large flock of goats on each section of dyke with the idea that they destroy the brush. This method has been tried elsewhere with good results, and with proper control should in time dispose of this evil in an economical manner.

Flood-boxes.—Existing flood-boxes or sluice-gates, speaking generally, are in fair condition. The new concrete box which was built last year at Matsqui at a cost of some $13,000 appears to be of good construction. The important question of floor-levels, together with the size of box,

requires further consideration, and in view of this and the exorbitant cost of the work finished, it is considered advisable to defer action on the one which was to have been erected, but which was not finished last year. A thorough examination of this as regards its condition and also the items mentioned above will be made as soon as the water conditions favour.

In addition, the advisability of putting weepers in the dykes at different points to allow seepage and winter water to run off is receiving attention and will be referred to in the yearly report.

River-protection Work.—This is a problem which has been gaining momentum for twenty years and upon which the buck has been passed from one year to another. It would appear that the Fraser River, being a navigable waterway, should be upon the same footing as the St. Lawrence in Eastern Canada; however, the fact remains that its southern bank is gradually encroaching and in a very short time will be under the Matsqui Dyke in some places.

Some training-works were erected, and erected wrongly, in 1908, in which the Department of Public Works, Canada, shared half the cost. These did not do the work intended, but are now so near gone that they are no longer an aid to the natural agencies of destruction.

Some 300 lineal feet of protection-work is needed at once at Matsqui. The eroded bank should be graded to a natural slope and pitched with a brush mattress and one-man rock.

On the Pitt River, west side, some 500 feet of protection-work is also needed at once. Owing to the different material there the brush mattress is not necessary, but about 200 tons of one-man rock would act as a temporary protection. Here piling, close boarded at the bottom and as far away from the dyke berm as possible, would be the remedy.

On the Pitt River, east side, some 700 feet is needed at once. Here some old piles can be utilized with a few additional ones, but close boarding should be done next low water.

Pumping.—The pumping season opened about two weeks earlier this season than last, and owing to the heavy precipitation in the spring months considerably more water had to be pumped. Although the season is not yet finished, there is reason to believe that the farmers are satisfied with the pumping service so far, which is gratifying, since every effort was made to render adequate service.

During the last week in June one of the old wooden pumps at Maple Ridge failed with age. Contracts had been let for supplementing this pump and its mate, and this will be in hand before another season. Meantime the pumping in this district is being done by the old wooden pump, which is still holding, and the Gwynn pump. Luckily the dry weather conditions have made it possible for these two pumps to handle the situation.

At Matsqui No. 2 Station the new unit which was installed last year was out of commission during flood-time because of violent vibrations set up in the discharge-pipe endangering the dyke, and the pump was stopped. Later when it was started, and after 50 minutes' operation, its pulley-wheel failed, flying to small pieces and greatly damaging the belt. However, by working continuously the old unit in this station was able to handle the water and is still continuing to do so.

The Vancouver Machinery Depot, who supplied this unit along with another at No. 1 Station, were approached with the idea of fixing their responsibility in the matter, and though they had finished their contract, and there was nothing concerning a guarantee in their contract, they have undertaken to make good the damage on a moral issue, and it is possible that this accident may be cleared up without expense to the district.

Maple Ridge—New Pumps.—The two wooden pumps which had operated in Maple Ridge District since 1896 had shown signs of decay for some years and had been patched to the limit. How long they would last was an unanswerable question, but one of them failed this year. It was previously decided to replace these with centrifugal pumps.

Tenders were called for the supply of these in March of this year. These were cancelled and new ones called for, in which more up-to-date equipment was specified and the installation and erection of same, together with pipe-lines, included. Foundations and pump-house were kept separate and will be completed by the Department by day-work.

Fourteen bids were opened, and after consultation with John Peck, Inspector of Machinery, and J. Muirhead, Inspector of Electrical Eenergy, that of Robt. Hamilton & Co., of Vancouver, was accepted.

A battery of two units, each with a capacity of 24,000 imperial gallons per minute and an efficiency of 73 per cent. helical cut-steel gear drive, automatic discharge-valves, suction and

discharge piping, all erected and fully guaranteed for one year, is the essence of the contract into which that company entered with the Department. Their price, which was the lowest tendered, was $17,047 and had the advantage over any other of being wholly disbursed within Canada.

A start has been made by the Department on the foundation-work and this is now ready for the superstructure.

The estimated cost of this battery complete is $20,500, and I am unable to estimate the salvage value of the old equipment. It is in accordance with the best engineering practice and will permit of automatic control, which phase is given further attention later in this report.

Operation.—Under date April 1st, 1919, a contract was entered into with the Western Power Company of Canada, now the British Columbia Electric Railway Company, Limited, which runs for five years. By it $0.004 per kilowatt-hour is paid for energy used during the months of May, June, July, and August, and a demand charge in addition of $958.33 plus $1.25 for each kilowatt over 700 kilowatts for each of those months. For the other months of the year a demand charge of $100 per month is to be paid, and if energy in excess of 500 kilowatts is used during that time the rate of $0.01 per kilowatt-hour shall apply.

Each station is insured against straight fire loss by policies which have been in force for some time. This form of policy would not appear very useful as it is not comprehensive enough. The straight fire risk is small in any case, so inquiries have been made with regard to obtaining a sort of marine insurance on the plants or a combination of the two. Information on this is not yet to hand.

The possibilities of reducing the pumping costs are being gone into thoroughly and there is a possible solution.

The seven stations with present equipment require the constant services of one operator each and occasionally two operators. Automatic electric controls would do away with these operators and would require an initial outlay of some $1,800 per station equipped. The suggestion is worth the fullest investigation and is receiving the same.

Drainage.—Every district is suffering from lack of drainage facilities. Ever since the dykes were built natural agencies have been going on raising the bottom of the natural waterways to the level of their obstructions at the dyke crossings, conditions having been gradually becoming worse, until now there is a crying need in every district. Steps have been taken this year to attend to this problem now and to cope with it as it recurs, and it is hoped that in the next few years the natural watercourses will all have been cleaned, thereby allowing the land-owners an outlet for their private drains.

It is intended to keep the equipment purchased this year for completing the Matsqui drainage scheme within the Department, to be used for the benefit of all lands under the Department. With this equipment work of this nature can be done at the lowest possible cost, but it would appear advisable to distribute the cost of such work over a six-year period, giving the productive qualities of the soil a chance to recover before the land has to bear the full limit of the cost.

It is estimated that the lapse of time between the recurring of choked conditions will be six years between the first and second operations and from eight to ten years thereafter, so that the work can be done and the cost distributed without overburdening the property.

In arriving at the order in which work should be undertaken as regards districts, consideration should be taken of the condition of the lands and also as to whether the occupiers of the lands are making a business of farming or merely holding for speculation.

The Soil and Crop Division of the Department of Agriculture have made surveys of the areas concerned, and their report leads to the belief that great things may be expected of these areas after adequate drainage facilities shall have been provided.

Mention has been made elsewhere in this report of the financial conditions and the necessity of altering the operation of the Act with regard to collections by Order in Council, allowing two years' arrears in assessments to accumulate, because of conditions attendant upon the last war. My information is, however, that this action was necessary because of the soil conditions attendant upon lack of drainage, which would seem to be borne out by a record of prices received for farm produce during and since the war period. Sooner or later the accumulated arrears (two years in several cases) will have to be collected, and it would be well to give the farmers what encouragement is possible, so that they would drain their lands and make them 100 per cent. productive.

In some of the districts, notably Maple Ridge, there are considerable areas of bog lands, most of which have reverted to the Province for unpaid assessments. Some method may be found for making these areas productive, but meantime they are a charge on the Province with little hopes of being redeemed.

MATSQUI DRAINAGE.

The Matsqui Drainage District No. 1 was brought into being by petition of the majority in value of the land-owners in 1919, under the "Drainage, Dyking, and Development Act, 1918." It was financed under section 58, chapter 25, "Dyking Assessments Adjustment Act, 1905." The requirements of that Act were complied with, and the Inspector of Dykes, being named as Commissioner, named C. E. Cartwright as engineer to the district, and he laid out the scheme in consultation with the Inspector of Dykes.

The original estimates fixed the cost of the work at $35,000, and $4,000 for preliminary surveys, expenses, etc.

The contract was let to the Northern Construction Company on a cost-plus basis, which company were made to close down their work for various reasons late in 1920.

On taking over the Department in February, 1921, I found the work about 70 per cent. completed, at a cost of some $90,024.72, with contracts let estimated to cost $1,693.71. The work of finishing estimated at 30 per cent. of the whole, consisted of some 3⅛ miles of lateral ditches, some 4½ miles of main slough to be excavated, some clearing-up of work left by the contractors, and a log-jam in the slough at Gifford to be removed.

Estimates showed that the laterals could be finished for $7,000 by hand-work, and this work was let to local contractors. While not yet finished, the results are satisfactory, the finished work being of good character and the cost well within the estimate, though necessarily high because of the method.

The slough-work could not be done by hand, and as the Department had no equipment at that time for doing the work an effort was made to have this work done by contractors who had proper equipment. The most attractive proposition was one which estimated the cost at some $17,000 on a cost-plus basis, doing the work with a scow-dredge. In addition to this estimate, there were such extras as brushing, removing and replacing bridges, water-pipe lines, etc., which, with the possibilities centred around the cost-plus system and also the similar problems in other districts, led to the purchase of an up-to-date excavating-machine by the Department for use in finishing this project and later in other districts.

This work is being done by the Department by day-work with the machine mentioned and is giving good results. Excluding rental, $3,832.20 has been spent in this connection and about 2½ miles of the slough-work completed. Each month shows an increase in efficiency, due to the better working of a slightly worn machine and also to the fact that the principle is gradually being established that "Government work should not cost more."

It is expected that the method adopted will beat the price estimated for the scow method by around 50 per cent.

In connection with the Matsqui drainage scheme, a few points might be mentioned which will be helpful in future work without trespassing on its history.

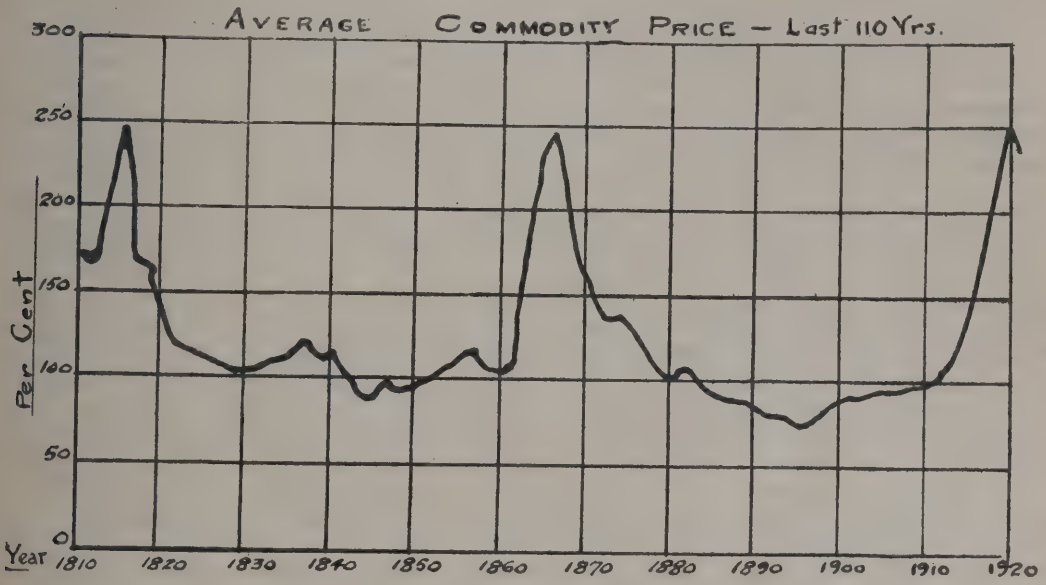
The comprehensive scheme which was adopted was wrong in two main particulars: (1.) A boundary was adopted which was not in any way a natural boundary—viz., the Halert Road. All that property south of this land-line was made a part of the district, participating in the benefits and costs. All that property north of this line was outside the district and did not participate in the cost; while that property immediately adjoining would necessarily participate in the benefits. (2.) The slough-work, which because of the very nature of things is a part of the dyking-works, should have been done at the expense of the whole prairie and not that portion of it south of the Halert Road.

Arrangements are made for assessing the lands within the district on a basis of 100, 50, and 25 per cent. benefit, the yearly assessments plus 5 per cent. for maintenance reimbursing the Government for capital advanced in full by the year 1948.

Provision was made by the Act for the holding of one Court of Revision to determine and fix the benefits; and, further, that if one was not satisfied with the treatment accorded, appeal could be made to a County Court Judge.

Pleading ignorance, a great many have appealed to the Department for justice in the matter of their classifications. In some cases the classifications are decidedly unfair, and I trust that these injustices may be rectified as soon as the work is completed, and suggest that another and final Court of Revision be held.

WORKS, GENERAL.



The above graph is compiled by American banking interests from authentic records and is adopted generally as being reliable. The downward curve from the Great War prices is expected to approach that of the previous two in similarity, though some authorities claim that owing to the far greater amounts of capital involved the decline will be slower. However, it will serve to point out that in the interests of economy considerable may be gained by deferred action

Applied to this Department, however, while it is well to have that picture always in mind, the fact remains that there is much work which has been allowed to slide too long and must (parts of it at least) be attended to at once or the interests of economy will have been defeated. A patch programme is needed which will eventually lead to first-class conditions, and this can only be effected at this time by exercising careful expenditure and constant supervision, otherwise the dyked lands will be hopelessly overburdened.

SUMMARY.

The more salient features of the Department may be set out as follows:—

With regard to finance:—

(1.) The assessed rate per acre has increased from an average of $1.34+ in 1908 to $2.57+ in 1920.

(2.) Two years' arrears—i.e., 1919 and 1920—have accumulated on considerable of the holdings in the different districts and sooner or later must be collected.

(3.) Owing to prices for farm produce having already declined materially, collections would be expected to be harder unless production is increased or expenditures lowered, or both.

(4.) At last year's tax sale fifty-four parcels were exposed and only one bid made at the upset price.

With regard to works:—

(1.) Certain work is necessary even under present unfavourable conditions, such as drainage to increase production and some protection-work and some maintenance-work to safeguard present investments.

(2.) A far-sighted business programme, carefully planned and painstakingly executed, must be adopted to save this Department from embarrassment and to put the dyked lands upon a solid footing.

These features, while alarming, can be satisfactorily overcome, in the writer's opinion, only by the application of scientific management in its strictest sense, both as regards finance and works; and it is intended in this summary to deal with the remedy on the merits of efficiency as supplied by scientific management.

It is extremely difficult for one already within an organization, if only for a few months, to do justice to a question of this kind, on account of personal sympathies, and more particularly in the case of the writer, whose treatment at the hands of those who have been long in this organization, some over twenty years, has left nothing to be desired. Their loyalty and painstaking work causes deep regret and no relish for the work in hand. For this reason efficiency engineers, who are the most highly paid among technical men of to-day, are injected into organizations rather than promoted. Regardless of the personal cost, the duty is clear.

In dealing with any question on a basis of efficiency, immediate conditions must be studied and standards set which will approach the conditions desired. In addition, future requirements must be ascertained and sometimes imagined.

In the question under discussion present conditions are known, but future requirements will have to be imagined as applied to the scope of the Department. Past performances should be forgotten and future performances under scientific management anticipated.

Logically, all dyked lands in the Fraser watershed could best be administered under one head, for the reason that overhead charges would be less because of the distribution made possible. Further, up-to-date equipment could be maintained for the benefit of all dyked lands at a minimum of cost.

An efficient organization would therefore anticipate administering to more dyking districts than are at present under the Department, and this could be set up as well within the range of future requirements.

To best serve present and future requirements, the following is submitted in the interests of efficiency:—

(1.) The Department should be located at New Westminster as early as possible.

(2.) Clerks of municipalities whose interests conflict with a dyking district should be made responsible to the Inspector of Dykes and work with him and collect the dyking assessments for that district.

Enlarging upon these suggestions, it is pointed out: (1) That by moving to New Westminster a direct saving in the time of the Inspector of Dykes is immediately effected, by way of the 66 per cent. reduction in distance to be travelled; (2) the time which is so essential to the carrying-out of contemplated works in an efficient manner could be found; (3) expenses of the Inspector of Dykes would be reduced about 50 per cent.

With regard to the clerks of affected municipalities working with the Inspector of Dykes, it is pointed out that there is at present a certain duplication of office-work, such as searching titles, mailing notices, and book-keeping, and that the additional work to the municipal clerks would therefor not be great. An extra column in their books for dyking charges would enable them to handle collections efficiently, and a copy of so much of the assessment roll for any year as applies to their district would enable them to do such book-keeping as is necessary. Returns made to the Inspector, say, once each week on a system to be devised would enable the Inspector to keep a close check upon their work and the departmental books to be kept in good condition with a minimum staff.

It is anticipated that a staff of one, who should be proficient in both book-keeping and stenography, would handle all the work at the head office.

The advantages of this method would be:—

(1.) Reduction in overhead charges.

(2.) It permits of better collections (important because of accumulated arrears).

(3.) It localizes a part of the organization and will stimulate interest and lead to better satisfaction.

(4.) It will give the Inspector of Dykes more time and allow him to keep in closer touch with both finance and works.

(5.) It anticipates future requirements and would permit the addition of other districts into the Department without any increase in overhead.

These suggestions are made after careful thought, and, in the opinion of the writer, form the basis of a reorganization along the lines of scientific management.

It is regretted that sufficient time has not yet been available for a careful study of the working-out of details, but these can and will be met.

Consideration has always been given to the axiom that "It is easier to tear down than to build up." It is qualified by the fact that conditions are not even similar to those of twenty years ago, or even five years ago.

Yours obediently,

BRUCE DIXON,

Inspector of Dykes.

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

FIFTIETH ANNUAL REPORT

OF

THE PUBLIC SCHOOLS

OF THE PROVINCE OF

BRITISH COLUMBIA

1920-21

BY THE SUPERINTENDENT OF EDUCATION

WITH APPENDICES

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

To the Honourable WALTER CAMERON NICHOL,

Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

I beg herewith respectfully to present the Fiftieth Annual Report on the Public Schools of the Province.

J. D. MACLEAN,

Minister of Education.

November, 1921.

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PART I.

GENERAL REPORT.

REPORT OF THE SUPERINTENDENT OF EDUCATION, 1920-1921.

EDUCATION OFFICE,
VICTORIA, B.C., November, 1921.

To the Honourable J. D. MacLean, M.D., C.M.,
Minister of Education.

SIR,—I beg to submit herewith the Fiftieth Annual Report of the Public Schools of British Columbia for the school-year ended June 30th, 1921.

I have the honour to be,
Sir,
Your obedient servant,

S. J. WILLIS,
Superintendent of Education.

ENROLMENT.

The total enrolment in all the schools was 85,950. The number of boys was 43,442, and of girls 42,508. The average actual daily attendance was 68,497. The percentage of regular attendance was 79.69.

NUMBER OF TEACHERS EMPLOYED.

The total number of teachers employed, including manual-training and domestic-science instructors, was 2,734. Of this number, 251 were employed in the high schools, 1,077 in the city graded schools, 644 in the rural municipality schools, and 762 in the rural and assisted schools. Thirty-five high and 105 public schools were in operation in the cities; 15 high and 182 public schools in the rural municipalities; and 2 high and 607 public schools in the rural and assisted districts.

NEW SCHOOLS.

The following is a list of new schools that were established during the year:—

Cariboo District .....Miocene; 150-Mile House.
Columbia District .....Parson.
Comox District .....Lang Bay; Nimpkish River; Okeover Arm; Stillwater; Suquash.
Cowichan District .....Mayo.
Dewdney District .....McConnell Creek.
Esquimalt District .....Shirley.
Fort George District .....Aleza Lake; Hulatt; Orange Valley; Penny; Swan Lake; Tate Creek; Taylor's Flats.
Grand Forks District .....Spencer.
Greenwood District .....Norwegian Creek.
(The) Islands .....Divide; Thetis Island.
Kamloops District .....Adelphi; Barriere Valley; Floral Creek; Lackenby; McLure; Wire Cache.
Kaslo District .....Gray Creek.
Lillooet District .....Blue Ridge; Forest Grove; 70-Mile House.
North Okanagan District ..Trinity Valley.
North Vancouver District ..Brackendale; Irvine's Landing; Wilson Creek.
Omineca District .....Decker Lake; Driftwood; Glentanna; Lake Evelyn; Tchesinkut Lake; Topley; Wistaria.
Prince Rupert District ....Buckley Bay; Firvale; Hanall; Lawn Hill; Queen Charlotte.
Similkameen District .....Allenby.
Slocan District .....Bellevue; Carroll's Landing; Passmore; Three Forks.
South Okanagan District ..Bear Creek.
Trail District .....Birchbank; Champion Creek.
Yale District .....Gladwin.

HIGH SCHOOLS.

The enrolment in the high schools during the year was 7,259. Of this number, 3,093 were boys and 4,166 were girls.

The number of divisions, the total enrolment, the average actual daily attendance, and the percentage of regular attendance in each high school are shown in the following table:—

High Schools.	Number of Divisions.	Total Enrolment.	Average Actual Daily Attendance.	Percentage of Regular Attendance.
Agassiz	1	25	23.12	92.48
Armstrong	2	41	36.34	88.63
Bridgeport	3	52	42.62	81.96
Chilliwack	4	128	100.72	78.68
Courtenay	1	23	18.25	79.34
Cranbrook	3	77	67.63	87.83
Creston	1	24	18.55	77.29
Cumberland	2	38	34.75	91.45
Duncan	2	64	53.49	83.58
Enderby	1	30	26.63	88.76
Esquimalt	3	51	45.60	89.41
Fernie	3	60	54.57	90.96
Golden	1	19	14.74	77.58
Grand Forks	3	74	62.39	84.31
Greenwood	1	16	13.13	82.06
Kamloops	5	110	98.33	89.39
Kaslo	2	47	39.09	83.17
Kelowna	3	84	77.83	92.65
Ladner	2	37	33.65	90.95
Ladysmith	3	70	57.67	82.39
Langley	2	37	31.99	86.46
Maple Ridge	2	30	24.61	82.03
Matsqui	2	23	18.74	81.48
Mission	3	54	42.55	78.79
Nanaimo	4	143	123.01	86.02
Nelson	8	194	168.87	87.04
New Westminster:				
Duke of Connaught	11	361	303.90	84.18
T. J. Trapp Technical	7	228	168.00	73.69
Oak Bay	3	106	92.11	86.89
Peachland	1	17	13.04	76.70
Penticton	2	69	59.99	86.94
Point Grey:				
King George V.	7	183	159.77	87.30
Prince of Wales	4	147	120.09	81.69
Port Alberni	1	17	13.91	81.82
Prince George	1	25	18.27	73.08
Prince Rupert	3	81	68.66	84.76
Revelstoke	4	125	107.59	86.07
Rossland	3	75	66.88	89.17
Salmon Arm	2	43	34.33	79.83
Slocan	1	12	9.05	75.42
Summerland	2	62	49.47	79.79
Surrey	2	42	32.83	78.16
Trail	3	62	50.43	81.34
Vancouver:				
Britannia	15	507	431.53	85.11
King Edward	17	562	476.21	84.73
King George	14	457	381.11	83.39
Kitsilano	8	300	265.62	88.54
Cecil Rhodes	6	235	194.54	82.78
Technical	10	317	254.06	80.14
Vancouver, North	7	206	174.63	84.77
Vancouver, South	13	457	393.93	86.19
Vernon	4	97	83.36	85.94
Victoria	28	915	780.28	85.27

CITY PUBLIC SCHOOLS.

The enrolment in the city public schools was 39,650. The number of boys was 20,223; of girls, 19,427.

The number of divisions, the total enrolment, the average actual daily attendance, and the percentage of regular attendance in each city public school are shown in the following table:—

Schools.	Number of Divisions.	Total Enrolment.	Average Actual Daily Attendance.	Percentage of Regular Attendance.
Alberni	3	99	87.67	88.55
Armstrong (Consolidated)	16	566	444.23	78.48
Chilliwack	11	430	321.37	74.73
Courtenay	4	166	109.22	65.79
Cranbrook:				
Central	11	481	400.74	83.31
Kootenay Orchards	1	28	21.11	75.39
South Ward	2	93	71.47	76.85
Cumberland	12	509	379.74	74.60
Duncan (Consolidated)	14	500	381.55	76.31
Enderby	5	176	144.87	82.31
Fernie	23	915	762.63	83.34
Grand Forks	10	465	366.15	78.74
Greenwood	3	84	74.69	88.91
Kamloops	16	673	520.61	77.36
Kaslo	4	167	132.60	79.40
Kelowna	14	506	418.70	82.74
Ladysmith	11	420	357.79	85.18
Merritt	9	396	343.36	86.70
Nanaimo:				
Middle Ward	4	172	153.89	89.47
Quennell	19	855	735.75	86.05
South Ward	3	147	135.60	92.24
Nelson	19	757	647.73	85.56
New Westminster:				
F. W. Howay	12	514	410.93	79.94
Lord Kelvin	8	304	269.25	88.57
Lord Lister	9	346	307.60	88.90
Richard McBride	11	430	372.76	86.69
Queensborough	2	77	66.19	85.96
John Robson	11	420	336.89	80.21
Herbert Spencer	11	412	341.28	82.83
Port Alberni	4	186	148.38	79.77
Port Coquitlam:				
Central	5	153	131.05	85.65
James Park	3	91	72.86	80.07
Port Moody	5	176	140.91	80.06
Prince George	7	271	197.27	72.79
Prince Rupert	18	702	602.26	85.79
Revelstoke	14	594	515.97	86.86
Rossland	11	462	402.91	87.21
Salmon Arm	4	160	139.84	87.40
Slocan	2	61	51.56	84.52
Trail:				
Central	16	572	515.42	90.11
Tadanac	2	43	32.65	75.93
East	2	39	35.76	91.69
Vancouver:				
Aberdeen	11	490	374.44	76.42
Alexandria	16	696	529.62	76.09
Bayview	10	409	350.43	85.68
Beaconsfield	9	394	327.02	83.00
Central	21	933	652.94	69.98
Children's Home	4	133	111.42	83.77
Dawson	27	1,038	855.53	82.42
Charles Dickens	10	394	345.42	87.67
Fairview	14	546	447.53	81.96

CITY PUBLIC SCHOOLS—*Continued.*

Schools.	Number of Divisions.	Total Enrolment.	Average Actual Daily Attendance.	Percentage of Regular Attendance.
Vancouver—*Continued.*				
Franklin	7	314	263.90	84.04
Simon Fraser	16	654	553.91	84.69
General Gordon	11	488	410.62	84.14
Grandview	14	616	523.58	84.99
Hastings	14	630	537.72	85.35
Henry Hudson	17	658	544.19	82.70
Kitsilano	12	493	424.86	86.17
Livingstone	11	466	400.73	85.99
Model	13	589	493.27	83.74
Mount Pleasant	19	807	641.66	79.51
Macdonald	12	539	455.68	84.54
Lord Nelson	17	772	655.60	84.92
Florence Nightingale	19	783	649.28	82.92
Cecil Rhodes	11	472	396.82	84.08
Lord Roberts	24	1,021	849.95	83.24
Laura Secord	13	486	411.23	84.61
Seymour	20	880	716.79	81.45
Strathcona	25	987	845.85	85.69
Lord Tennyson	15	640	543.29	84.89
School for the Blind	1	7	6.71	95.85
School for the Deaf	5	44	36.23	82.34
Vancouver North:				
Lonsdale	9	355	294.57	82.98
Queen Mary	14	549	444.57	80.97
Ridgeway	12	439	372.69	84.89
Vernon	17	734	626.35	85.33
Victoria:				
Bank Street	4	155	129.79	83.73
Beacon Hill	4	143	116.83	81.69
Boys' Central	12	428	363.94	85.03
Burnside	6	225	196.02	87.12
Cook Street	1	25	23.46	97.84
Sir James Douglas	14	574	489.59	85.29
Fernwood	2	62	60.46	97.51
Girls' Central	13	479	400.80	83.67
George Jay	14	524	460.22	87.82
Margaret Jenkins	8	311	261.72	84.15
Kingston Street	6	217	180.37	83.12
North Ward	10	380	331.40	87.21
Oaklands	14	488	428.83	87.87
Quadra Street	8	283	240.96	85.14
Quadra Primary	4	168	129.36	77.00
Rock Bay	2	107	50.32	47.02
South Park	10	370	320.00	86.48
Spring Ridge	5	191	175.32	91.79
West	11	423	376.82	89.08
Child Study Laboratory	1	23	12.71	55.26

RURAL MUNICIPALITY PUBLIC SCHOOLS.

The enrolment in the rural municipality public schools during the year was 22,322. The number of boys enrolled was 11,521; of girls, 10,801.

The following table gives the names of the several municipalities, the number of schools in each, the number of divisions, the total enrolment, and the average actual daily attendance:—

Municipality.	Number of Schools.	Number of Divisions.	Total Enrolment.	Average Actual Daily Attendance.
Burnaby	14	59	2,445	1,886.42
Chilliwack	14	26	853	649.18
Coldstream	2	2	78	55.20
Coquitlam	5	7	168	132.22
Delta	11	15	463	360.96
Esquimalt	1	15	566	464.07
Kent	2	5	169	140.02
Langley	15	23	889	634.73
Maple Ridge	9	17	582	450.47
Matsqui	11	18	517	379.93
Mission	9	17	531	433.90
Oak Bay	2	14	538	448.70
Peachland	2	4	120	92.63
Penticton	2	15	663	55.14
Pitt Meadows	2	2	49	38.44
Point Grey	7	52	2,019	1,677.36
Richmond	7	17	627	511.15
Saanich	15	55	1,878	1,546.87
Salmon Arm	6	8	232	187.63
Sumas	5	7	173	113.95
Summerland	2	9	344	282.44
Surrey	18	29	955	699.37
Vancouver North	5	18	650	512.59
Vancouver South	14	164	6,470	4,945.50
Vancouver West	3	9	343	272.97

RURAL AND ASSISTED SCHOOLS.

The total enrolment in these schools for the year was 16,719. Of this number, 8,605 were boys and 8,114 were girls.

EXPENDITURE FOR EDUCATION, 1920-21.

Education Office:		
Salaries		$ 16,607 10
Expenses of office—		
Books	$ 160 04	
Telegrams, telephones, etc.	943 85	
Expressage	5 95	
Printing and stationery	6,961 35	
Postage	1,057 72	
Furniture and repairs	461 75	
Equipment and repairs	374 89	
Insurance	25 50	
		9,991 05
Travelling expenses		153 60
Carried forward		$ 26,751 75

Brought forward		$ 26,751 75
Free Text-book Branch:		
Salaries		6,066 58
Expenses of office—		
Telegrams and telephone	$ 93 98	
Printing and stationery	2,902 65	
Postage	1,160 24	
Sundries	148 96	
		4,305 83
Books, maps, globes, etc.		96,865 54
Agricultural Education:		
Salaries		22,985 80
Office supplies	$ 814 38	
Travelling expenses	1,842 17	
Grant in aid	8,694 27	
Summer school (total spent during year $6,740.80, but $5,950.65 was included in report for 1919–20)	790 15	
		12,140 97
Industrial Education:		
Salaries		6,350 83
Office supplies	$ 1,283 96	
Travelling expenses	1,143 93	
Night-schools	15,607 22	
Summer school	6,256 77	
Grant in aid	38,565 69	
Grant in aid of Technical School, Vancouver	550 00	
Grant in aid of Technical School, New Westminster	12,000 00	
		75,407 57
Inspection of Schools:		
Salaries		43,628 85
Office supplies	$ 3,047 23	
Travelling expenses	18,537 51	
		21,584 74
Normal School, Vancouver:		
Salaries		25,316 45
Office supplies	$ 2,118 98	
Travelling expenses	18 10	
Fuel, water, and light	2,815 33	
Maintenance and repairs	1,899 92	
Students' mileage	3,321 35	
Allowance to teachers assisting Normal students	735 00	
		10,908 68
Normal School, Victoria:		
Salaries		22,627 50
Office supplies	$ 2,955 60	
Travelling expenses	78 70	
Fuel, water, and light	3,530 31	
Maintenance and repairs	3,137 12	
Students' mileage	2,478 85	
Allowance to teachers assisting Normal students	625 00	
Incidentals	52 25	
		12,857 83
Deaf, Dumb, and Blind:		
Salaries of staff, tuition, maintenance, fares, etc., of students		25,645 46
Per capita grant to cities		620,551 05
Per capita grant to municipalities		392,057 60
Per capita grant to rural school districts		135,924 10
Carried forward		$1,561,977 13

Brought forward	$1,561,977 13
Salaries to teachers in assisted schools	425,596 45
Salaries to teachers in Esquimalt & Nanaimo Railway Belt	90,355 35
School buildings, erection and maintenance of	400,083 95
Libraries	1,210 66
Manual-training equipment	223 03
Examination of teachers and High School Entrance classes (total spent during year $21,299.33, but $17,239.45 was included in report for 1919–20)	4,059 88
Conveying children to central schools	15,329 78
Scholarships for British Columbia students	1,800 00
Contingencies and incidentals	4,686 03
Grant to University of British Columbia	426,249 99
	$2,931,572 25
Amount expended by cities, municipalities, rural and assisted school districts	4,238,457 25
Grand total cost of education	$7,170,029 50

The following table shows the cost to the Provincial Government of each pupil on enrolment and on average daily attendance during the past ten years:—

Year.	Cost of each Pupil on Enrolment.	Cost of each Pupil on Average Actual Daily Attendance.
1911–12	$17 47	$23 32
1912–13	17 91	23 85
1913–14	20 04	25 27
1914–15	21 78	26 65
1915–16	22 50	28 56
1916–17	22 47	27 83
1917–18	22 64	27 93
1918–19	24 88	31 59
1919–20	27 20	36 05
1920–21	29 01	36 38

The gradual growth of the schools, as well as the cost to the Provincial Government of maintaining the same, is shown by the record of attendance and expenditure given in the following exhibit:—

Year.	Number of School Districts.	Aggregate Enrolment.	Average Actual Daily Attendance.	Percentage of Attendance.	Government Expenditure for Education.
1872–73	25	1,028	575.00	55.93	$ 36,763 77
1877–78	45	2,198	1,395.50	63.49	43,334 01
1882–83	59	2,693	1,383.00	51.36	50,850 63
1887–88	104	6,372	3,093.46	48.54	99,902 04
1892–93	169	11,496	7,111.40	61.85	190,558 33
1897–98	213	17,648	11,055.65	62.64	247,756 37
1902–03	268	24,499	16,357.43	66.76	397,003 46
1907–08	189	33,314	23,195.27	69.62	464,473 78
1912–13	359	57,608	43,274.12	75.12	1,032,038 60
1917–18	575	67,516	54,746.76	81.09	1,529,058 93
1918–19	582	72,006	56,692.38	78.73	1,791,153 47
1919–20	636	79,243	59,791.39	75.45	2,155,934 61
1920–21	665	85,950	68,497.57	79.69	2,931,572 25

The following table gives the number of teachers of each sex employed during 1920–21 in the various electoral districts of the Province, and also the number of certificates of each class held by the teachers:—

Electoral District.	Academic.	First Class.	Second Class.	Third Class.	Temporary.	Special.	Male.	Female.	Total.
Alberni	4	6	12	12	2	...	8	28	36
Atlin	4	2	1	4	...	...	3	8	11
Cariboo	2	...	7	5	6	...	7	13	20
Chilliwack	13	4	36	16	5	1	14	61	75
Columbia	2	3	8	4	1	...	3	15	18
Comox	9	9	40	18	8	...	14	70	84
Cowichan	4	4	13	7	1	2	5	26	31
Cranbrook	5	6	11	8	7	1	7	31	38
Delta	7	10	24	28	7	2	11	67	78
Dewdney	6	9	33	18	6	3	14	61	75
Esquimalt	4	8	10	8	3	2	6	29	35
Fernie	6	16	16	12	5	...	10	45	55
Fort George	5	4	18	9	16	...	14	38	52
Grand Forks	3	8	5	5	1	...	3	19	22
Greenwood	2	1	6	6	3	...	6	12	18
Islands, The	3	6	10	7	1	...	8	19	27
Kamloops	9	11	40	30	11	1	11	91	102
Kaslo	8	4	10	9	2	...	10	23	33
Lillooet	...	4	6	6	8	...	5	19	24
Nanaimo	3	9	26	11	1	2	8	44	52
Nelson	8	6	11	1	1	2	7	22	29
Newcastle	2	6	16	6	2	2	5	29	34
New Westminster	18	18	39	2	2	9	21	67	88
North Okanagan	11	12	32	18	3	4	17	63	80
North Vancouver	9	17	39	18	5	4	20	72	92
Omineca	3	...	11	6	4	...	5	19	24
Prince Rupert	11	11	19	6	6	2	12	43	55
Revelstoke	3	7	17	6	4	...	3	34	37
Richmond	18	18	61	21	2	7	32	95	127
Rossland	3	1	8	3	...	2	4	13	17
Saanich	11	16	39	6	1	1	13	61	74
Similkameen	7	14	18	5	1	2	13	34	47
Slocan	5	10	17	4	2	...	13	25	38
South Okanagan	14	10	23	6	3	3	14	45	59
South Vancouver	21	44	96	35	1	9	47	159	206
Trail	9	6	34	12	3	1	6	59	65
Vancouver City	151	120	199	7	5	55	136	401	537
Victoria City	29	47	76	22	...	25	54	145	199
Yale	1	3	18	11	...	7	6	34	40
Totals (1920–21)	433	490	1,105	418	139	149	595	2,139	2,734
„ (1919–20)	417	499	976	404	132	129	572	1,985	2,557

INSPECTORS' REPORTS.

HIGH SCHOOLS—INSPECTORATE No. 1.

VICTORIA, B.C., September 17th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit the following report on the high schools of my inspectorate for the school-year ending June 30th, 1921:—

This inspectorate contains the same schools which I enumerated in my last annual report, and in addition the high school at Bridgeport, in Richmond Municipality, which was assigned to my inspectorate at the beginning of the school-year, and the Prince of Wales High School, which was opened last September in the Municipality of Point Grey. The Bridgeport High School has a staff of three teachers and the Prince of Wales High School a staff of four. Increases in the staffs of other schools were as follows: Kamloops, one teacher; Queen Mary High School, North Vancouver, two; and in the high schools of Vancouver City that came under my supervision, four teachers, apportioned thus: Cecil Rhodes High School of Commerce, one teacher; King George High School, one teacher; and the Kitsilano High School, two teachers. The total number of teachers in this inspectorate, including those in the high schools at Prince George, Prince Rupert, and Quesnel, that were reported upon by the resident Public School Inspectors is 130.

Nine of the total number of teachers held commercial specialist certificates and two gave instruction in physical training only. The remaining 119 teachers taught purely academic subjects and all but three had university degrees. Twenty-four were graduates of universities in the British Isles, fifteen having graduated from universities in England, seven from those in Scotland, and two from those in Ireland. The remainder were graduates of the following Canadian universities:—

Acadia University	12	graduates.
Dalhousie University	11	„
Manitoba University	8	„
Mount Allison University	1	„
McGill University	18	„
McMaster University	2	„
Queen's University	10	„
Toronto University	19	„
University of British Columbia	6	„
University of New Brunswick	5	„

Only twenty teachers had not received professional training. In view of the fact that up to two years ago a graduate in Arts, in Science, or in Literature of a recognized university within the British Empire could obtain an academic certificate by passing a written examination on the art of teaching and the school law of the Province, the percentage of teachers who have not received any professional training is remarkably small. Now that graduates of recognized British universities must hold certificates of approved Normal Schools, it will not be long before every teacher who holds an academic certificate will also have training in the art of teaching.

This year, for the first time in my experience, I inspected the work of teachers who received all their education in the public, high, and normal schools of the Province, and who graduated in Arts from the University of British Columbia. Their intimate knowledge of the subject-matter of the lessons taught, as well as the methods used in the presentation of lessons, reflected credit not only upon the teachers themselves, but upon the educational system of which they are the finished product. I examined both the academic and professional side of the work of these teachers with profound interest, because our "schools of to-morrow" will be taught largely by those who receive their elementary education in our public schools and who graduate from our high schools, our Provincial University, and our Normal Schools.

In erecting new buildings and making provision for additional accommodation many School Boards have been slow to act, chiefly on account of stringent financial conditions. In contrast to a number of cities that have systematically voted down by-laws for school purposes, the

Cities of Kamloops and Nanaimo may be mentioned for having carried their money by-laws by substantial majorities. The Nanaimo School Board has purchased the Agricultural Exhibition Hall, which will be converted into a high school. This building is commodious, the site is an excellent one, and the grounds are spacious. There are ten high schools in this inspectorate occupying buildings in common with public-school classes. While this grouping of public- and high-school pupils in one building is not conducive to the best results, yet I have found the principals and teachers of both schools endeavouring to synchronize the times of opening, intermission, and closing, so that instruction in one school will be interfered with as little as possible by the entrance and exit of pupils in the other. Owing to the large increase in attendance at Bridgeport, Cloverdale, Kamloops, and in Point Grey Municipality, it will be only a short time until the buildings now used conjointly at these centres will be occupied solely by high-school pupils.

Teachers are manifesting a greater interest than heretofore in the organization of school libraries, in the selection of books adapted for the use of their pupils, and in directing their reading so that they will become acquainted with standard authors and thereby cultivate an appreciation of the best literature. I have observed, too, that teachers who install libraries in their schools are themselves lovers of good books and keep abreast of the times in their professional reading.

"The Province of Ontario," according to a statement made by its Minister of Education, "has in proportion to population a greater number of public libraries than any country, State, or Province in the world." In addition to its public and travelling libraries, the library of the Department of Education at Toronto offers to every teacher in the Province, no matter how isolated his school, the best educational works procurable. It contains upwards of 36,000 books and 130 American, British, and Canadian monthly educational journals. These books and periodicals refer to subjects taught in the public, high, and normal schools. The library also has collections of pamphlets, reports, and bulletins on the history and development of education, as well as samples of standardized tests for determining progress in various school subjects and scales for the measurement of intelligence. It has books on science, history, art, agriculture, psychology, the social sciences, and vocational, industrial, and technical education. This library is at the service of teachers, inspectors, students reading for degrees in pedagogy, and persons doing research-work in educational problems. The books are loaned for a period of two weeks and the time may be extended further if there is no other call for the book. The only cost to the borrower is the postage required to mail the book or periodical back to the library.

The Department of Education in this Province has been wisely helpful in the financial assistance it has given to public- and high-school libraries; for scholarships to British Columbia students for post-graduate study in France; towards Frontier College, Hands Across the Seas movement; and in supplementing amounts expended by Boards of Trustees for high-school laboratories. I can think of no investment, however, that would yield greater returns than the establishment of a library somewhat similar to that in the Ontario Department of Education. Such a library should be a centre from which would radiate new life and inspiration to every school in British Columbia.

I have, etc.,

ALBERT SULLIVAN,

Inspector of High Schools.

HIGH SCHOOLS—INSPECTORATE No. 2.

Vancouver, B.C., July 30th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

Sir,—I beg leave to submit the following report on the high and superior schools of my inspectorate for the school-year ending June 30th, 1921:—

This district now comprises twenty-five high schools (with 123 divisions) and nine superior schools. Including a number of specialists, who did not enroll classes, 153 teachers were employed in these schools, fourteen more than last year. I was able to make 257 visits of inspection, having called at all schools at least twice, with the exception of the South Vancouver School, two large Vancouver schools, and one outlying superior school. These schools were inspected only once.

During the year new superior schools were established at Ioco and Nakusp, while a high school was opened at Slocan City and a technical school at New Westminster. The Port Moody Superior School was closed and the high-school pupils of that city were conveyed by automobile to the New Westminster High School.

Technical work made noteworthy strides during the year. Since the inauguration of technical high-school work in Vancouver the classes had been conducted in the King Edward High School. During the year the Provincial Government purchased the Labour Temple and is now leasing it to the Vancouver School Board for use as a technical school. This building is a very admirable one for the purpose. The move from King Edward School was made on March 1st and the Vancouver Technical School was formally opened by the Honourable the Minister of Education on the afternoon of April 4th.

The Provincial Government presented the City of New Westminster with the building formerly used as a gaol. The School Board of that city converted this into a very satisfactory school, remodelling the interior of the building and installing an excellent heating system; thus came into existence the T. J. Trapp Technical School.

The Municipality of South Vancouver is to be congratulated on its excellent new high school built during the year. This building, which was named after the Premier of the Province, contains twelve class-rooms, a large auditorium, and a number of smaller rooms. Classes started work here on January 17th and taxed the capacity of the building to the limit. More class-room accommodation will be imperative at the opening of school next year.

In some of the schools, more especially in the larger graded schools at the Coast, the work of the classes shows improvement from year to year, but I am sorry to report that in many of the smaller schools the standing of the classes is considerably below that of previous years. There is much good teaching in many of these schools, but because of lax grading at the end of the first or second year pupils come up to the higher classes who are unable to cope with the difficulties which arise in the different subjects from day to day. These not only fail to grasp the work themselves, but act as a drag on the whole class, and consequently the well-prepared pupils suffer also. I am firmly convinced that if a high standard of high-school work is to be reached and maintained in future, it will be necessary for teachers at least in the smaller schools of the Province to ask their first- and second-year pupils to write the Departmental Examination. I am informed that it is the intention of the Department to prepare papers for Preliminary and Advanced Junior pupils. While principals will still have the privilege of grading these classes if they so desire, I believe it will be the part of wisdom for them to require their pupils to submit themselves to the Departmental test.

I have, etc.,
J. B. DeLong,
Inspector of High Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 1.

VICTORIA, B.C., September 2nd, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit the following report on the public schools of Inspectorate No. 1 for the school-year ended June 30th, 1921:—

The year just closed showed a slow though steady growth in the number of children of school age within the inspectorate, and with few exceptions the accommodation already provided was ample. At Courtenay an eight-room frame building was erected and one division added to the school; at Cumberland a four-room addition was erected and the staff increased by one more teacher; McGuigan School was reopened; a third division was formed at Union Bay, the old school-house being utilized to accommodate it.

With few exceptions, the districts in this inspectorate are well provided with excellent school buildings and the children, as a rule, have no long distances to walk to school. From the Tsolum allotments of the Merville Settlement the children were carried to school first by motor-car and afterwards by team, but neither method was satisfactory, as the children were compelled to walk too great a distance over mud roads to the conveyance. The settlers on the Dove Creek allotments were empowered to reopen the Nikrap School in their vicinity, but this was not attempted during the year. Until the roads in this new area are completed and rendered passable at all times of the year, it will be impossible to formulate any permanent plan for the schooling of the children affected.

In passing around the various school districts I have found quite a demand for men as principals of small graded schools—a demand that is impossible to satisfy because so few young men view the calling of the teacher with any degree of favour. While complaint is heard of unemployment and overcrowding of other callings, the schools continue undermanned, but I believe many a recruit would be obtained if teachers would direct the attention of pupils and students to the need for male teachers in our public schools.

Principals of schools advancing 60 per cent. of Entrance pupils to high school without examination have not yet in all cases absorbed the spirit of the instruction governing this matter. Whereas in the years before this plan of promotion was adopted a principal would invariably purge the class of all certain failures before the day of examination, at present no such elimination of certain failures appears to be undertaken before the 60 per cent. is struck, and it is quite within the range of possibility that the 60 per cent. thus advanced upon recommendation contains a greater number of scholars than would have been presented for examination under conditions previously existing.

I found the class-work usually of a satisfactory character. A noted improvement within recent years is the greater care displayed by teachers in placing work upon blackboards, and a greater desire on their part to render the class-room more attractive through a more general use of wall pictures and window plants.

I have, etc.,
W. H. M. MAY,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 2.

VICTORIA, B.C., August 31st, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—Herewith I beg to submit a general report on the condition of the public schools in Inspectorate No. 2 for the school-year ending June 30th, 1921.

This inspectorial division comprises roughly the islands in the Gulf from Saturna to Gabriola; the Municipalities of Oak Bay and Esquimalt; the west coast of Vancouver Island from Port Renfrew to Port Alice on Quatsino Sound; the territory from Highland to Jordan River, and all that country extending north from Victoria along the Esquimalt & Nanaimo Railway to Qualicum Beach, including the Cities of Duncan, Ladysmith, and Nanaimo.

In the unorganized portion of this territory there are fifty-nine ungraded schools; twelve graded schools of two divisions each, four of three divisions, one of four divisions, and one of nine, making forty-nine graded divisions in all. There are, therefore, 108 teachers engaged in the unorganized portion of this inspectorate as at present constituted.

In the two suburban municipalities of Oak Bay and Esquimalt there are twenty-eight divisions with twenty-nine teachers; in the former two schools with seven teachers in each, and in the latter one large school with fifteen teachers. In the consolidated school at Duncan, to which are drawn by motor-vans every school-day the children in the North Cowichan Municipality, with the exception of those at Chemainus, Crofton, and Genoa Bay, there are ten divisions, with facilities for the teaching of domestic science and manual training for all pupils in the Intermediate and Senior Grades of the elementary schools. The School Board also made provision for the teaching of these subjects to the pupils attending the graded school at Chemainus. Mention is made here of the facilities provided for the teaching of these subjects for the reason that outside of where consolidation has taken place there are very few rural children who enjoy these advantages.

In the elementary schools of Ladysmith and Nanaimo there are thirty-seven divisions in operation, eleven in the former and twenty-six in the latter, making a total in the whole territory of 184 teachers.

With the exception of two schools on the west coast of Vancouver Island, neither of which presents any difficulty in visiting, but very difficult to get away from inside of the loss of ten days, I inspected and examined all the others once, a large proportion of them twice, and a number three times.

During the school-year ending June 30th an assisted school was established and opened on Thetis Island opposite Chemainus; also one at Mayo, on the Canadian Pacific Railway branch line from Duncan to Cowichan Lake, about 9 miles from Duncan; an additional room was added to the school at Errington and occupied in the month of October; while at Langford provision for additional accommodation was made before the close of the school-year, and a second division will be in operation there when the schools reopen in September. Early in September, 1920, the crowded condition of the consolidated school at Harewood necessitated the opening of another division, and a small cottage located on 2½ acres recently purchased by the School Board was fitted up as a temporary class-room and opened early in October. The teaching staff both at Duncan and Nanaimo was added to at the commencement of the present calendar year to meet the increased enrolment.

At this particular stage permit me to be reminiscent for a paragraph. It is now sixteen years since I inspected and examined the schools in this territory. In the rural portions the school buildings of that day are gone. The small rural schools with one teacher, such as North Cedar, Chase River, Harewood, Extension, and Parksville, are now replaced by modern buildings of from two to nine divisions; while in places like Cassidy, Diamond Crossing, Brechin, and Errington, with two and three divisions, there were no settlements at all. On the islands in the Gulf, from Saturna to Gabriola, the number of schools has been increased, but in a number of instances the cause of education would have been much better served had there been schools of two or more divisions established instead of multiplying the number of one-roomed schools. While there is noticeable a decided improvement in the character of the buildings, equipment, apparatus, and general facilities for carrying on the work of instruction, much still remains to be done in improving and beautifying the grounds. Much, however, has been accomplished along all these lines. The children of to-day, generally speaking, are comfortably housed and very happy in their surroundings and in their school-work. There is little or no coercion. The relations between teacher and pupils are amicable, cordial, and natural. Nearly all schools are the happiest of homes.

The increasing number of teachers without experience and the lack of continuity of tenure in our rural schools have been deplored in many annual reports. The recent graduates of our Normal Schools must get their experience somewhere and in some schools, and until School Boards in all instances pay a sufficiently attractive salary our young teachers must in self-defence continue, after the manner of their detractors and defamers, to sell their product in the best available market.

The great factor in our public-school education after all is the man or woman behind the teacher's desk. The personality of the teacher is the great national asset, next to which come

in importance the interest, sympathy, and co-operation of the community. Considering the apathy and indifference of many of the communities, the educational progress of the children, whose sole inspiration is the young lady teacher, with an occasional stimulus contributed by a sympathetic mother here and there, is nothing less than marvellous.

Let me conclude my report with an extract from a recent magazine article:—

"Education used to be regarded as a philanthropy. Charitable schools cast their turbid shadow on mid-Victorian literature. It was a form of charity which was withheld as far as possible from the working-classes, lest it make them restless and dissatisfied, and was given out only in quantities which were expected to add to the usefulness but not to the ambition of the lower ranks of society. Democracy has discredited education as a philanthropy and recognized it as the right of every potential citizen, the only insurance against the anarchy of ignorance, and the sole safeguard of the institutions of a free people.

"The public schools offer to all the children of Canada the opportunity to prepare for citizenship together—the rich and the poor, those with long traditions of culture and those with long traditions of toil—in the atmosphere and under the inspiration of the community institution. No money can return larger dividends in real accomplishment than that added to the budget of our public schools; nor can any community interest more certainly strengthen the best elements in our civilization than that devoted to the improvement of the public education."

There is a moral responsibility laid upon every citizen not only to work for the betterment, but to contribute his quota of money and service to the strengthening and improvement of every community institution devoted to the public service. The day of exclusivism is past and that of public service and co-operation, let us hope, has succeeded.

In concluding a review of last year's work, perhaps the most agreeable in my experience, permit me to express my appreciation of the unfailing courtesy and kindness extended to me by all with whom it was my privilege to transact business connected with educational work in this inspectorate.

I have, etc.,
A. C. STEWART,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 3.

VANCOUVER, B.C., September 2nd, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit the following report on the schools of Inspectorate No. 3 for the school-year ended June 30th, 1921:—

Inspectorate No. 3 comprised eleven Coast schools, extending from Gibson Landing to Pender Harbour, the public schools of the Rural Municipality of Richmond, and the following public schools in Vancouver City: Aberdeen, Beaconfield, Bayview, Children's Home (Grenfell), Dawson, Charles Dickens, Hastings, Kitsilano, Mount Pleasant, Macdonald, and Strathcona.

This inspectorate comprised 173 class-rooms at the beginning of the school-year, but before the end of February ten additional classes were organized in the city schools mentioned above. One visit of inspection was made to each of the 183 class-rooms involved, and as far as time permitted a second visit was made to rural schools. Some rural districts were visited the third and fourth time in connection with special business.

One outstanding feature in connection with school-work during the year under review was the shortage of suitable accommodation. School Boards have faced the situation with courage and determination, but their repeated efforts to secure adequate funds have been defeated by a section of ratepayers who are apparently determined to allow the efficiency of our schools to suffer. The burden of taxation necessary during the reconstruction period through which we are now passing has led to the repeated defeat of by-laws by which Trustee Boards sought to secure means that would provide suitable accommodation so urgently needed.

The voters who defeated the school by-laws may have succeeded in avoiding a slight increase in taxes, but they have also been eminently successful in increasing the burdens of the teachers, in causing great anxiety to interested parents, and in taxing the ingenuity of those immediately connected with school administration.

Undoubtedly we are passing through times when economy should be practised to the utmost; but this policy of curtailment is not one of wise economy. There were over 1,400 children working on part-time system and thereby receiving only a portion of the instruction and development to which they are entitled. By this curtailment of privileges probably 250 of these children will have to repeat a term's work, thus adding a half-year to the period of their school-life. Primary teachers are severely handicapped by the part-time system. Then, too, we should remember that it can hardly be regarded as good business to pay two teachers for a full day's work when it is known that they are working under conditions that permit of the production of only half a day's results, no matter how strenuously the teacher may labour.

The building programme for the year was restricted and inadequate, as it provides only for immediate requirements. In the rural districts two one-room buildings were erected, one at Pender Harbour and the other at Sechelt. In Richmond a frame building was provided on Sea Island for an Oriental class, and provision was made for a two-room frame building of modern construction at Steveston. At the Strathcona School in Vancouver City an old brick building which had been condemned was torn down, and a new eight-room building erected largely from material obtained from the old structure. This building occupies a large area as it is a one-story type. Provision was made for a full basement which will be urgently required for play purposes, as the grounds at this school are altogether too small for the large number of pupils attending. When this new building is opened, four classes, that for over two years have occupied rooms in the attic which were dangerous and unsanitary fire-traps, will have suitable quarters.

In order to cope with exigencies imposed by financial stress produced by the war the Vancouver Board has decided to provide a number of cottage class-rooms. Provision has been made for one-room buildings at Aberdeen and Bayview, and two-room buildings at Dawson, Hastings, Mount Pleasant, and Macdonald. If these new buildings are ready for occupation when the schools reopen, all classes will be comfortably provided for at the beginning of the new school-year; but part-time classes will again be necessary in February unless more accommodation is provided in the meantime.

The adoption of the cottage system, occupying as it does so much ground-space, is destroying the usefulness of the playgrounds and detracting from their appearance. In this respect the Aberdeen, Dawson, Macdonald, and Strathcona Schools are at present the most severely handicapped.

The past year has been one of earnest endeavour by the great majority of our teachers. Intense application and enthusiasm did much to overcome the disadvantages incident to lack of suitable accommodation. There is at present a decided forward movement in the educational world. Teachers as a rule are displaying keen interest in the welfare of the children placed under their care. The adoption of project methods and socialized efforts are demanding more and more attention. Actuated by a spirit of greater service and a desire to increase their own efficiency, a large number of our teachers are attending summer schools, and taking special courses during the summer vacations in Washington and in California, as well as in our own Province.

I was also impressed with the amount of reading that teachers are doing in connection with newer movements along educational lines. Among the writers that seem to receive most consideration are: Adams, Bagley, Cubberly, Dewey, Horne, James, Judd, Monroe, Starch, Strayer, Suzzalo, and Whipple. The spirit of curiosity and a desire to be more humanitarian are leading to a careful study of the investigations of Binet, Ballard, Termen, and Anderson; and a desire to render more efficient service and to ascertain to what degree their efforts are up to standard has popularized such names as Curtis, Otis, Woody, Ayres, etc.

On some the effect of all this reading is disquieting and creates a feeling of dissatisfaction. Many are being benefited, but realize that a royal road to learning has not yet been discovered; that it is still the teacher's duty to study, work, and arouse the child's interest; that the pupils must be led to cultivate, among other good habits, accuracy and the power to make intense application. We have some earnest and conscientious teachers who believe in rapid and radical

changes; they are overanxious to labour in the "schools of to-morrow." Energy and enthusiasm for the new make them so impatient with much that now exists in the present system of education, and they fail to realize that some things are basic and thus essential in all ages. To such teachers I would suggest a careful reading of P. Monroe's "History of Education," with special attention to the last chapter.

SALARIES.

I am pleased to note the salary increases of the past year. The teachers in both the city and the municipality have appreciated this liberal treatment; in the outlying districts your Department has acted both wisely and generously.

No better way of reaching and maintaining a high salary level is within reach of teachers than consistent effort for a higher standard of achievement. Evidently most of our teachers are already deserving, as evinced by preceding paragraphs. However, for the sake of the few teachers who do not recognize the signs of the time, let me quote one writer's opinion:—

"Educational outputs are not to be measured like those of factories; it is the quality, not the amount, of manhood and citizenship that counts. The teacher on her part will command respect in due proportion to her efficiency and the quality of her work. And as she convinces the community of her worth and her labour so she will receive an adequate financial return. It is time, we think, to cease shouting the rights of teachers from the housetops and to merit the present increased salaries by sheer efficiency. The agitator who would have teachers reduce the superintendent's authority and check the legal prerogatives of the School Board had better get back to her text-book and supplement her last year's lesson-book with some freshly gathered teaching wisdom."

Any salary policy of School Boards who have the welfare of their communities at heart must decidedly rule out the consideration of reductions in salaries and of discontinuance of the stated increases provided in existing schedules. In some communities adjustments of schedules must be made in the direction of higher maximums for special merit and experience. And there are numbers of smaller communities which are still below a fair schedule that will hold teachers from going to adjoining towns only by further increase. I am pleased to report that some of the assisted schools, where boundaries are defined, have decided to increase the teachers' salaries.

HELPFUL ORGANIZATIONS.

To those engaged in educational work it is encouraging to find that the public at large is displaying an increasing interest in educational work. This has been shown by the actions of various clubs, chapters of the I.O.D.E., and Parent-Teacher Associations. Certain chapters of the I.O.D.E. have supplied some schools with milk for children whose physical condition required special attention. One I.O.D.E. chapter supplied over ninety volumes to start a library in one of the Coast schools situated about 30 miles from the city. The happiness and information derived by the pupils of that favoured and favourite locality was to the teacher, before she left the district, ample reward for the efforts she had made in the matter; but many who helped in the good work can only hear of the delight, pleasure, and profit brought to those isolated children by so many books rich in picture and story. The Parent-Teacher Associations have encouraged many teachers; they have assisted in enlarging libraries and provided funds to purchase the copy or provide frames for many of the good pictures that now adorn the walls of nearly all our schools. The work of a foster Parent-Teacher Association for the Children's Home School is deserving of mention.

The school as much as the home needs co-operative effort such as expressed in those organizations. And the large city school needs it more than small schools in the town or rural district. It has been well said by an educator: "There is no other co-operative agency so much needed by the home. There never was a time when the need was so great for intimate connection between home and school as at present. The conditions of modern life are so complex, opportunities for good and evil are so numerous, the occupations of the home are so meagre unless they are related to the school, and the work of the school is so abstract unless it has a practical outcome in the home that it is imperative for parents and teachers to get together."

SCHOOL-WORK.

As to the charge that our schools are overrun with novelties, what shall we say? Unfortunately a casual survey of elementary education seems to bear out the charge. There certainly are a host of new things being tried on children these days. To mention a few, there are the prevocational school, the all-year school, supervised study, socialized recitations, project method, standard tests, the Dalton plan, etc.

The general blanket excuse for all these novelties is that progress means change, that only by trying out new ideas can we judge of their value, and thereby ensure the advancement of the school toward higher efficiency. Undoubtedly it is true that progress means change, but change does not necessarily mean progress. There is such a thing as change for the worse, and it is possible to have too many and too radical changes. In other words, no educational experiment can be justified merely on the ground that it is different and therefore means progress. On the other hand, without experiments we cannot know the real worth of new things in education, or whether their adoption will spell progress. So thoughtful educational administrators are face to face with a dilemma: they cannot progress without experimenting, and they cannot experiment without running the risk of overdoing it. They can, however, learn much from the experiences and results obtained by overardent experimentors, and experiments can be tried on a scale that will not upset an established system. A recent survey of educational matters in a large neighbouring city found that some recent experiments did not stand for progress and one of the novelties was discarded as worthless. Nevertheless, from some of these novelties we are gaining useful information which will assist in readjusting the curriculum and in introducing methods that will more effectively meet the requirements of rapidly changing social and psychological conditions.

In the graded schools the work of the primary classes is conducted with skill and energy and in a highly successful manner. There is, however, a tendency to lower the standing in spelling. To my mind the general standing of First and Second Reader classes is not satisfactory; and the eighteen-month period spent in covering this section of elementary school-work cannot be regarded as a period productive of adequate results. That this portion of the prescribed course can be performed satisfactorily and efficiently is demonstrated by the work of several capable teachers; but many teachers doing this work are weak and lacking vision. How came they to this particular work which is generally regarded as requiring less skill or effort than that required to teach successfully any other portion of the Public School Course? Among them are many teachers who could not come up to the high standards required by a capable primary supervisor, and others who, having neither ability nor aptitude for higher work, failed as Intermediate or Senior Grade teachers. It is true that some of those weak teachers who are doing this work get good results in spelling, reading, and drawing; they even succeed in getting their pupils to memorize the multiplication tables, but they fail to develop number-power; they do not introduce geography properly nor continue the good work already started in oral and written composition in primary classes. A supervisor for this period of work is required in order that there may be more uniformity of purpose and that work of a higher standard may be attained. Then pupils upon entering the Intermediate Grade will be better equipped to meet the difficulties peculiar to that grade. Proper supervision during this period would also save many young teachers from failure and render unnecessary some painful dismissals.

Generally speaking, there has been an improvement in the work of Intermediate Grade teachers. The first year's work in this grade is arduous; it requires skill, patience, and careful preparation on the part of the teacher. Much of this burden would be removed if we had better work in the latter part of the previous grade.

As a rule the work of the Senior Grade is satisfactory. There is, however, in some schools a tendency toward less exact information on the part of the pupil. Some teachers attempt to justify this on the ground that the pupils are gaining a broader information. This may be so, but there is danger of this broad information having a shallowness akin to veneer.

It may be regarded as an open question whether principals of city schools should have the privilege of promoting all their Entrance pupils to high school without Departmental Examinations; or whether they should recommend a percentage as is done in large rural municipality

schools? Most of our principals are using good judgment in this matter, but I have grave doubts regarding the fitness for higher work of some of the pupils recommended from some classes.

Since the return of the drawing supervisor there has been a decided improvement in connection with this subject. Nature-studies are a source of worry and doubt to many anxious and conscientious teachers. In composition-work the average results are rather discouraging. Our senior pupils do not, as a whole, display ability in criticizing intelligently their own written work; too many expect the teacher to discover and mark errors in spelling and omissions in punctuation.

I have, etc.,
J. T. POLLOCK,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 4.

VANCOUVER, B.C., September 2nd, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I have the honour to submit the following report on the schools of Inspectorate No. 4 for the school-year ended June 30th, 1921:—

The following schools comprised this inspectorial district: Public schools in the Rural Municipalities of Maple Ridge; Mission (with rural and assisted schools adjacent); Pitt Meadows; and the Cecil Rhodes, Franklin, Florence Nightingale, General Gordon, Grandview, Laura Secord, Livingstone, Model, Seymour, Simon Fraser, and Lord Tennyson Schools in Vancouver City. The total number of class-rooms, including both rural and urban schools, was 189. One visit of inspection was made to each division in the city schools, while two visits of inspection were made to each division in the rural municipality and rural and assisted schools. In addition to the regular visits of inspection, a considerable number of special visits were made to the rural districts in connection with the various questions of organization, consolidation, and school administration generally.

During the school-year under review an assisted school was established at McConnell Creek, in the Dewdney Electoral District, and the Rural School District of Dewdney was incorporated with the Mission Municipality School District. The Senior and Intermediate Grade pupils of the Dewdney District are now conveyed daily by motor-van to and from the Mission Central School.

All credit is due to the progressive citizens of Dewdney and Mission Districts, who at a time when all schemes of consolidating schools were meeting with defeat in neighbouring municipalities were courageous and public-spirited enough to adopt a policy that cannot fail to provide superior facilities for the education of the children of the district.

In many respects the work of inspection during the year has been carried on much in the same way as in the year previous. There is little to recount that has not already been written and rewritten in reports of this character.

There is one dark and disturbing feature of our work that we cannot escape. I refer again to the cruel overcrowding of our children in the public schools. The old woman who lived with her numerous progeny in a shoe had large, spacious, and luxurious quarters compared to those in which thousands of benighted children spend their hours of school.

This theme has been given so much attention of late, both in the press and on the platform, that there is no need to make any lengthy reference to it here. To argue that under existing conditions the intellectual progress of the pupils is not being retarded is to give vent to mere sophistry, and to state that the health and physical well-being of these children are not being impaired is to ignore the inexorable laws of a universe whose maker and builder is God.

As reports on each division of every school included in this inspectorate have been forwarded from time to time during the school-year, it would be vain repetition to make any detailed reference to the actual work observed in the class-rooms. In concluding this brief and general report, I shall therefore refer very briefly merely to one or two features of the work in general.

In striking and most pleasing contrast to the discouraging difficulties under which the work was so often carried on was the splendid spirit displayed by the great majority of our teachers in both rural and urban communities. As it has been spoken of the pioneers of Canada that their courage rose with peril, so it may be said of our public-school teachers that they have risen bravely, cheerfully, and uncomplainingly to meet every situation, however beset with difficulties.

In the primary classes of the Junior Grade in the Vancouver City Schools very excellent work was accomplished in some cases. This work is under the supervision of a special supervisor. At the end of the fall term it was possible in many schools to promote a considerable number of pupils from the Receiving class direct to Second Primer, thereby saving a half-year at school. In one case at the Cecil Rhodes School it was found possible and advisable to promote two supernormal Receiving class pupils direct to First Reader, thus saving for these pupils a whole year of public-school life.

This instance, I believe, affords an argument in favour of the introduction and stressing of standardized tests and mental measurements in our schools. It is my opinion that, if opportunity were given for the application and scoring of such tests as Whipple, for instance, has designed and prepared for the segregating of gifted, accelerated, or supernormal children as they are variously termed, a radical change would follow in the grading and classification in our schools. These accelerated pupils would be separated from the normal children as the subnormal pupils have been and would be given work commensurable with their abilities.

In the visiting of schools in various parts of this Province for the past ten years the conviction has been growing upon me that in the work of the elementary school sufficient stress is not being laid upon what are usually termed the essentials. Our Public School Curriculum includes many branches of study. For Entrance to High School pupils are examined in eleven subjects. In addition to these, we have manual training, domestic science, physical drill, music, and school-gardening, all of which are necessary and fulfil an important function in the education of the child.

In arithmetic lack of accuracy and of speed in ordinary computations and calculations is common to all classes and grades of public schools. In testing Intermediate and Senior Grade classes particularly, I have met with surprisingly poor results.

In the primary grades in rural schools objects are not used sufficiently in order to assist the pupils to grasp clear concrete ideas of number. Number is too often taught in the abstract only. Even in schools where the combinations and separations have been well taught in the Primer classes—and this applies to city schools as well—and the extensions of the same have been taught and tables builded in the First Reader, a weakness develops in the Second Reader class for the simple reason that the work of the previous grades is abruptly dropped and never by any chance reviewed. I find a tendency, all too common in the large graded schools of the city, for the teacher to "stick to her limit" and to refrain religiously from reviewing the work that preceded her "limit." In a subject such as arithmetic such a policy is fatal. The retentive powers of the children are not strong, and no matter how well foundational work in arithmetic may have been taught by the previous teacher a lasting impression cannot be made upon the conscious mind unless there is careful and periodical review. In the Intermediate Grade the denominate numbers are not well taught. Here again there is lack of concreteness. To get clear concepts of these things the children must be shown the meaning of and the necessity for the various units of measurement, and they must be set to work to measure things, to make actual measurements, and to compute and to calculate the result of their individual observations. In the Senior Grade there is far too much time spent on written problems and far too little time given to mental calculations. Assign to the average Senior Grade class a difficult problem on a certain page of their arithmetic, and probably 90 per cent. of the class will work it out beautifully. Assign to the same class the problem of computing the area of a city lot, and answers will vary from almost zero to hundreds of thousands of acres!

Under the caption of English I would, of course, include Reading, Literature, Grammar, Composition, and Spelling. If there is one thing more than another that requires stressing in our public schools, it is surely the study of English. The necessity for the development of language-power must be impressed upon every teacher in the land. The power of expression, both oral and written, attained by our pupils leaves much to be desired.

There are several reasons possibly for the rather low standing in English in rural schools particularly. Too often in such schools the teacher's training in English has been limited. A

much more extensive and intensive course in English for teachers-in-training should be insisted upon. Libraries should be installed in every school in the land, so that both teachers and pupils could have access to "whole treasures of wisdom, bright gems of thought, and golden veins of language."

Too often the pupils get little or no opportunity for discussion. Practically all the recognized talking is done by the teachers. In schools where dramatization methods are employed in teaching history and literature, and where socialized methods are in vogue whereby pupils take the main part in the discussions, one finds language-power developed to a high degree.

In concluding this report, I should like to refer very briefly to the convention of the Fraser Valley Teachers' Institute held last November at Mission, in this inspectorial district. For a number of years past the public- and high-school teachers of the Municipalities of Maple Ridge, Mission, Matsqui, and Sumas have held a convention at Mission City in November of each year. The success which has always attended this convention has been due largely to the enthusiasm and untiring efforts of the Mission high- and public-school teachers. A particularly successful convention was held last November. Some very able and helpful addresses were given and papers read by visiting teachers from Vancouver and Victoria.

The teachers in these rural municipalities take the keenest interest in this institute and receive help and inspiration from the various discussions. In a previous report I have suggested that an institute day might be set aside each school-year for the holding in different portions of the Province gatherings of this kind.

I have, etc.,
H. H. MACKENZIE,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 5.

VANCOUVER, B.C., August 30th, 1921.

S. J. Willis, Esq.,
Superintendent of Educatiaon, Victoria, B.C.

SIR,—I beg to submit the following report on the public schools of Inspectorate No. 5 for the school-year ended June 30th, 1921:—

This inspectorate comprises the following schools in Vancouver City: Alexandra, Central, Fairview, Henry Hudson, Lord Nelson, Lord Roberts, and School for the Blind; also those in Point Grey Rural Municipality, ten schools in and near Powell River, and the Provincial Oral School.

For various reasons the character of the teaching in the Vancouver schools is well above the average; nearly all the teachers had proved their worth elsewhere before they were appointed to the city staff; they are assisted by a number of supervisors who are specialists in their own departments; all are directed by a very capable, efficient, and conscientious Municipal Inspector. But the progress of the pupils depends upon more than the training, ability, and devotion of their teachers and supervisors. Many pupils are retarded by circumstances over which the individual teacher has no control. The ratepayers still refuse to vote the necessary money for school accommodation to meet the increase in school attendance, and therefore the evils of part-time tuition and overcrowded class-rooms continue. Many parents take little intelligent interest in the education of their children. Many children are addicted to the moving-picture habit, with its late hours and unhealthy excitement, and have to some extent lost the power of becoming interested in mere books and oral instruction. In a few schools the principals do not spend enough time on the "supervision over the classification, time-tables, exercises, methods, and general discipline pursued in the lower grades." But on the whole the progress of the pupils, particularly in the primary grades, seems to compare very favourably with the progress made in other places.

For some years good work has been done in Vancouver by psychologically testing the younger pupils to detect the ones who are subnormal; these are removed from the ordinary class-rooms and taught in special classes. Not only is the ordinary class no longer retarded by their presence, but the subnormal children themselves make much better progress, attempting only subjects within their mental powers, and taught by teachers specially selected and trained for this work.

It is to be hoped that public opinion will soon permit the School Board's psychologists to undertake a more important phase of their work—the selection of the supernormal pupils and their segregation into special classes. These pupils are at present retarded by being subjected to methods of teaching and a rate of class-progress necessarily planned for the more numerous normal pupils, retarded in much the same way as the normal formerly were by being taught with the subnormal. The progress and training of the supernormal pupil is of far greater importance than that of the subnormal, because it is from that class the leaders of the next generation should come.

In 1920 the public schools of Point Grey closed for the midsummer holidays with thirty-eight divisions and reopened with forty-eight; four more were opened during the school-year. To accommodate the new classes two modern fire-proof school-houses were completed, while two others are now under construction, one of which will be ready for use in September. The ratepayers continue to vote money for the further construction which will be necessary to cope with the rapidly increasing school population, part of which is doubtless attracted to Point Grey by the excellence of its schools and school buildings.

The Powell River School has grown during the year from five divisions to seven, and two class-rooms were added to the main building. The district is to be congratulated upon having a School Board which does not permit the question of salary to stand in the way of obtaining a good teacher. All supplies needed were also generously granted. The results obtained in the school were very satisfactory during the year under review and should be even better during the coming year.

A division was closed at Vananda and a school was opened at Stillwater.

At the beginning of the school-year the Oral School was taken over from the Vancouver School Board by the Provincial Government and housed temporarily in the Shaughnessy School Building; it will soon be moved into a permanent and more suitable home. The outstanding feature of the instruction in this modern school for the deaf is that the pupils are not taught to converse with their fingers, but are taught lip-reading and audible speech. The progress made by the children in this art is remarkable, particularly in the principal's own class.

I have, etc.,

LESLIE J. BRUCE,

Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 6.

VANCOUVER, B.C., August 31st, 1921.

S. J. Willis, Esq.,

Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit my annual report on the public schools in Inspectorate No. 6 for the school-year 1920–21.

The inspectorate comprises all the public schools in the City of Port Moody and the Municipality of South Vancouver; the assisted schools on Burrard Inlet, Howe Sound, and the schools on the Pacific Great Eastern as far north as Seton Lake. The number of class-rooms in the inspectorate during the year was 181.

In September, 1920, the schools of South Vancouver opened with 152 teachers engaged and an enrolment of 6,286. In February, 1921, there was an increase of seven teachers and 172 pupils. The Gordon School was opened in February with eight divisions in operation. This relieved the overcrowding at the Mackenzie and Tecumseh Schools. A four-room addition is being constructed at the Richard McBride School and a four-room frame building is being erected at the General Brock School. This building programme promises to care for the increase in school population for the coming year at least.

In the outlying parts of the inspectorate a new four-room building is being constructed by the Government on the new townsite at Ioco. The trustees of Sunnyside No. 2 School District are enlarging the present small building and making it more comfortable for the children.

The High School Entrance Examination results this year indicate that the Course of Study is being closely followed and a high percentage of the candidates sitting for the examination were successful. In the Municipality of South Vancouver 196 candidates were promoted by

recommendation. One hundred and fifty pupils sat for the examination and eighty-nine were successful. Two schools that were not entitled, under departmental regulations, to promote by recommendation sent up twenty-three candidates and passed them all. These two schools, Secord and Sexsmith, are deserving of special mention owing to the high standard of marks obtained by their candidates. In the rural part of the inspectorate the results were quite satisfactory, although not equal to the standard obtained by the larger graded schools.

In this report I must express my appreciation of the valuable work that is being carried on by Miss A. T. G. Reid, primary supervisor in the municipal schools of South Vancouver. Her helpful criticism, careful organization, and the splendid co-operation she has secured from the primary teachers have resulted in increased efficiency on the part of the teachers and a most satisfactory decrease in the number of retarded pupils in the Primer classes. A creditable improvement has resulted in the handling of all subjects, particularly number-work, penmanship, and spelling.

The prizes for excellence in physical training under the Strathcona Trust Fund were awarded as follows:—

First—Miss H. R. Anderson, 2nd Division, Lord Selkirk School, South Vancouver.
Second—Mrs. Hazel H. Jex, 5th Division, Sir Alexander Mackenzie School, South Vancouver.
Third—Mr. Geo. Wate, 1st Division, Secord School, South Vancouver.

A change in the method of carrying on the physical drill has been instituted in a number of the schools. The drill takes place at a given time, when all the divisions march to the playground. The principal supervises the drill carried on by the staff and handles the larger boys. I find the plan a good one and it is working out quite satisfactorily. The period is also utilized for games, open-air action-songs, etc.

Regular reports on the school-work of each teacher have been forwarded to your office from time to time and it is unnecessary to make further comments in this report. The greater part of my inspectorate is in the larger centres and the educational facilities are of the best to be obtained. Trained and successful teachers are given the preference in selecting new members to the different staffs. The careless, indifferent teacher finds that she must give a satisfactory return or retire. This tends to add strength to the staff and increased efficiency from year to year. Many of the teachers are availing themselves of the opportunity to become more proficient and modern in their methods by attending the University summer school here or in the United States. The summer school in Victoria is doing valuable work in training teachers in the practical part of teaching by giving them assistance in subjects such as drawing, manual-arts, penmanship, and nature-study. That these courses commend themselves to the teachers and that they spend their vacation in self-improvement indicate the high plane on which the greater number of the teachers place their profession.

I have, etc.,
JOHN MARTIN,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 7.

VANCOUVER, B.C., September 10th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I have the honour to submit the following report on the public schools of Inspectorate No. 7 for the school-year ended June 30th, 1921:—

This inspectorate embraces all the public schools in the Cities of North Vancouver and Port Coquitlam; the Rural Municipalities of Burnaby, Coquitlam, Delta, Kent, North Vancouver, and West Vancouver; and the rural schools in the vicinity of Hope and those on the Coast from Lund to Cape Scott. There are in all seventy-five schools with a staff of 192 teachers.

With the exception of a few schools in the vicinity of Alert Bay, every class-room received one inspection during the year. I was assigned to this inspectorate in October and began the work of inspection early in November. Time did not therefore permit of a second visit to any of these schools.

Owing to increased attendance a number of class-rooms were overcrowded. This condition prevailed especially in North Vancouver City, Burnaby, and West Vancouver. The Boards succeeded in providing relief by securing temporary quarters, but where this was not possible certain Junior classes were placed on "double-shift"—a system that has proven very unsatisfactory.

The ratepayers of Burnaby carried with a large majority a money by-law making provision for a four-room building at Kingsway West, a similar one at Edmonds, and a four-room addition at Nelson Avenue. These are now in the course of construction. When completed they should provide ample accommodation for that rapidly growing section of the municipality. A money by-law providing for a central school in West Vancouver failed to carry, although West Vancouver is in urgent need of more accommodation. In North Vancouver Municipality the Board has completed a splendid four-room brick structure at Lynn Valley.

In Kent Municipality consolidation has been in effect for over a year. The pupils from the outlying rural districts are conveyed in motor-vans to the town school. The plan is working well and there is no desire on the part of those concerned to revert to the old order of things. In the Delta consolidation is being discussed. It is to be hoped that this municipality, where conditions are ideal for such a plan, will not long delay making provision for its inauguration.

The Entrance Examinations in June were conducted at seventeen centres. The results on the whole proved quite satisfactory. In the larger schools where pupils were promoted on recommendation the principals exercised careful discretion. The Governor-General's bronze medal for the district was awarded to Miss Mildred May Townley, of Kingsway West School, Burnaby. Miss Townley also won distinction by obtaining the highest mark for the Province.

The prizes for excellence in physical drill this year were awarded as follows:—

First—Miss M. Simmons, 7th Division, Kingsway West.

Second—Mr. J. Burnett, 4th Division, Gilmore Avenue.

Third—Miss Morrow, 3rd Division, Kingsway West.

The work in the schools throughout the year was very satisfactory. The great majority of the teachers are earnest, capable, and most painstaking in their efforts. Any suggestions made were generally received in the same kindly spirit in which they were given. The teachers generally showed a splendid disposition to co-operate in any recommendations suggested for the betterment of their class-room work. The attitude of the teachers as a whole was most praiseworthy. There are a few, however, in the profession whose work, even when viewed in the most kindly and sympathetic light, could not be considered as even fair. These people would be happier in some other vocation.

In concluding, I wish to testify to the earnest and unselfish service rendered by members of School Boards. They are to be commended for the sacrifice they make in giving, gratis, many hours of their valuable time to serve their community. Their work has not been easy. Their hands have been tied, as it were, by the taxpayer, reluctant to vote sufficient money with which to carry on the work. While Boards have been handicapped and while teachers have not always found conditions under which they laboured most pleasant, yet it is to be hoped that as this year of reconstruction passes away a brighter future lies before us.

I have, etc.,

F. G. CALVERT,

Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 8.

NEW WESTMINSTER, B.C., August, 31st, 1921.

S. J. Willis, Esq.,

Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit report on the public schools of Inspectorate No. 8 for the year 1920–21.

This inspectorate comprises the schools of New Westminster, of Chilliwack, and of the Rural Municipalities of Surrey, Langley, Matsqui, Sumas, and Chilliwack; Abbotsford Superior School; and the assisted schools of Barnston Island, Cultus Lake, and Popcum. The number of rooms in operation during the year increased from 179 to 187; 75 of these are in New Westminster and Chilliwack and the remainder in rural schools.

Besides making a number of special visits in connection with various details of organization and administration, I was able to make one complete inspection of the work in all but two of these schools, and in cases where circumstances demanded I have made two or more inspections during the year. Meetings of teachers', parent-teachers', and farmers' associations in New Westminster, Chilliwack, Abbotsford, Rosedale, Cloverdale, and elsewhere have been attended and all possible assistance given in discussions on educational matters, and from time to time I have been present at the regular meetings of Trustee Boards.

The most urgent problem in these rural areas is still that of providing school accommodation, and a total increase of eight rooms in this inspectorate by no means indicates the real increase in the number of children of school age, many classes having been seriously overcrowded during the year. Owing to the defeat of by-laws to provide large consolidated schools in Surrey, Langley, and Chilliwack, the School Boards have been reduced to such temporary expedients as "double-shifts," renting disused stores and buildings, and half-time attendance, to the serious inconvenience and detriment of educational work. Some alleviation of the situation may be expected during the coming school-year in Surrey and Chilliwack, where the acceptance of moderate building schemes will, at any rate, relieve these Boards of the necessity of turning away children. And yet these schemes are purely tentative; they are not in line with modern educational ideas, and the normal growth of school population will in a very few years render further extensions necessary. The mere addition of a second room to an overcrowded one-room school cannot be regarded as more than a temporary makeshift, especially where the location of schools and child population and the condition of the roads make feasible a system of better grading by means of local consolidation. It is to be regretted that these otherwise well-informed and enlightened rural communities have so far failed to put themselves in line with any advanced and progressive educational policy so far as school buildings and organization are concerned. Ambitious and costly schemes are not called for; in these days of high prices a carefully designed, well-equipped frame building will meet all requirements; but since accommodation must be provided, should we not demand that buildings conform with modern ideas rather than resurrect the type of structure that satisfied our fathers and our grandfathers? Luxurious barns for cattle, up-to-date silos, demonstrations of electrical appliances for farm-work, are shown at agricultural exhibitions; but why not include exhibits of a model school building, a relief-map of a consolidated-school district, auto-vans for transportation of the children, charts demonstrating comparative costs and efficiency? Included might also be a specimen van-driver (non-smoker, abstainer, and thoroughly trustworthy), medical statistics showing liability to disease of children riding as compared with those trudging on foot, mortality tables showing deaths (if any) from accidents to vans en route, etc. A whole-hearted campaign of publicity and enlightenment is needed, backed by the most liberal financial inducement to those districts that will adopt and persevere with an advanced and progressive policy. Of all men, the Fraser Valley farmer understands the value of co-operative and up-to-date methods in his farming and marketing operations, though conviction probably came as a result of bitter experience and a tedious and costly campaign; he is equally open to conviction in school matters, and he will become just as loyal and enthusiastic a supporter of such methods in education once he is convinced of their value; his distrust of an education which drove the ambitious country child into the city has not yet been replaced by the knowledge that the best in modern education tends to bring the child back to the land.

Turning to actual work in the schools, detailed reports have been regularly forwarded and only one or two salient features need be referred to here. In the ungraded and partially graded schools of country districts—as reported last year—the work attains a surprisingly high level when account is taken of the difficulties under which it is carried on; in two respects there appears to be an improvement over work previously done—the ever present problems of organization and grading are being more effectively dealt with, and many teachers are making a more deliberate and conscious effort to establish the oneness of life inside and outside of the school and to utilize the child's home and out-of-school experiences and activities as the basis for training. Incidentally it may be remarked that considerably larger proportion of children from the one- and two-room schools were successful in the High School Entrance Examinations this year. There were in these schools fewer staff changes than heretofore, and it is satisfactory to note an increasing desire to secure the services of the more highly qualified teachers rather than of those possessing the minimum professional standing. During the last year or so a number of

university graduates, particularly those of our own University, have engaged in public-school work. This is a welcome sign, for many of these young graduates bring to their duties a wide range of interests, intellectual keenness, a broad outlook and sympathy, as well as readiness to learn, and it is to be hoped that it will be possible to retain some of them permanently in the ranks of our public-school teachers. Possessing qualifications enabling them to teach in high school, they are looking in that direction for permanent positions, and the cause is not far to seek. Owing to the mistaken idea that public-school work is easier and of less importance than high-school work, with corresponding prejudice against the former (a prejudice originating in older countries, where *free* education was long regarded as of necessity *cheap* education), the unjustifiable conclusion has been drawn that in the newer countries, where public opinion demands that the State provide the highest educational facilities for all alike, work with the younger children must necessarily be less generously remunerated than that of the higher grades. A teacher's salary, however, should be determined by his qualifications (including, of course, professional training and successful experience), and local authorities should keep this in mind when fixing remuneration if they desire to retain in their service the more highly qualified teachers.

In the larger rural schools and in the graded city schools the usual level of achievement has been reached, and in certain schools and classes the work has been excellent. Some of the advantages enjoyed by larger graded schools are not utilized to the extent they should be; staffed in the main by teachers of experience, regularly supervised by a principal, with their carefully and accurately graded classes, they might provide ideal conditions for work of the highest type. The reasons for undue retardation of individuals, or even of the whole classes; the question of the supernormal child; standardized tests applied to the teaching; intelligence tests applied to the grading—these and many other problems are occupying the attention of investigators, and the principal or teacher imbued with professional spirit will at least inform himself of their conclusions, and satisfy himself that nothing is left undone that can aid in his own professional work. Education is a dynamic subject, dealing with the spiritual and intangible, and we teachers can never sit down and say, "We *know* it all," whether we attribute our wisdom to excellent Normal training or to valuable and unparalleled experience. Safety lies in progress.

School-gardens are in operation at most schools in this inspectorate, agricultural supervisors exercising general oversight in Surrey, Langley, Chilliwack, and New Westminster. This branch of activity appears to be intelligently utilized, and most of the teachers recognize the great educational value of the school-garden as providing an opportunity to base much of the formal training upon the interests and activities of the child. In the graded schools increasing attention is being paid to organized games and play; in the smaller schools more should be done and the children are too much left to amuse themselves without any assistance or supervision by the teacher. It frequently happens that a majority of the children remain during the noon recess; supervision at that hour is not compulsory, but it is difficult to understand how a conscientious teacher who has at heart the moral training of the pupils can afford to neglect this opportunity of getting into closer touch with them and of observing and influencing them under out-of-school conditions.

Only in New Westminster and in Chilliwack City and Township are manual training and domestic science included in the curriculum; in the other municipalities provision should be made for the inclusion of these important branches by establishing centres which children from adjoining schools could conveniently attend. Parent-Teacher Associations are increasing in number and activity throughout the district, and, as focusing the interests and efforts of the ratepayers so that the local school becomes a live issue to the community, they are doing excellent work. In addition to their primary aim of strengthening the bond between school and home, their efforts toward the beautifying and laying-out of school-grounds, the provision of play apparatus, the supply of hot lunches, the supplementing of school equipment by providing piano, gramophone, library books, or pictures, and the active support of money by-laws, indicate only some of the directions in which they are making their influence felt.

I have, etc.,

ARTHUR ANSTEY,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 9.

KAMLOOPS, B.C., August 30th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit herewith the following report on the public schools of Inspectorate No. 9 for the school-year ended June 30th, 1921:—

The following were the number of schools in operation in this inspectorate during the year:—

	Schools.	Teachers.
City municipalities	3	29
Rural municipalities	7	8
Rural schools	26	36
Assisted schools	71	71
Totals	107	144

Eight new assisted schools were established and in operation for the first time during this year. Two new divisions were opened in Kamloops City School, and one each in Merritt, Lillooet, Clinton, and Fruitlands. Canford School District was lowered to the status of an assisted school. The schools at Rae Lake, Heffley Lake, Copper Creek, and Chase Creek were closed throughout the year.

The number of ungraded schools in this inspectorate (90 per cent. of the total number of schools), the extent of territory to be covered, and the difficulty of access in very many cases rendered the work of inspection somewhat difficult. However, all the schools in operation, with one exception, were visited once, and a second visit was made to the majority of the schools during the year. I have endeavoured to pay special attention to the schools employing inexperienced teachers, and have confined my work in such cases mainly to assisting the teacher in the organization of classes and to instruction in the general work of the school.

Over 20 per cent. of the teachers employed in this inspectorate during the year under review were in charge of schools for the first time, and a number of others had had no teaching experience previously in this Province. Frequent change of teachers has been a great detriment to the advancement of the work in the smaller rural schools, but as the country districts become more thickly settled and living and social conditions improve therein, it is hoped that this condition will in a large measure disappear. I wish here to pay tribute to the courage, perseverance, and tactful ability of the teachers (many of them young girls from city homes) who are doing the pioneer work in teaching in the more remote and isolated settlements. Many of these teachers have cheerfully adapted themselves to new living conditions, and wherever they have met with the hearty co-operation of the parents of their pupils they have invariably maintained excellent schools.

During the year just closed the question of providing increased school accommodation has been a very pressing one with the members of School Boards, especially in the larger centres. In Kamloops City much difficulty has been experienced in finding accommodation to meet the increase in enrolment. A new eight-room school building is now in course of construction which will supply accommodation for the public-school pupils who are at present housed in temporary quarters about the city and in the High School building. The old Public School building is undergoing extensive repairs with the object of improving the heating and sanitary arrangements of the building. Much credit is due the Kamloops Board of School Trustees, and the ratepayers as well, for the enterprising spirit they have displayed in the matter of providing every facility for the carrying-on of the work in the schools. Work on the projected addition to the Merritt Public School was not proceeded with this year, but it is hoped that better accommodation will be provided for at least two new divisions during the coming school-year. It has been found necessary also to provide additional accommodation in several of the rural and assisted districts, where the increase in enrolment has outgrown the old school buildings. On the whole, the school-year just closed has been a period of expansion, and the School Boards throughout the inspectorate, with the assistance of the Department, have been generally successful in their efforts to provide the additional accommodation necessary to meet the demands of the growing school population.

The quality of the work performed in the various schools in this inspectorate has been at least equal to that of the preceding year. More attention is being given to the teaching of writing and to inculcating habits of neatness and care in written exercises and note-book work. A sincere effort is being made in a large number of the schools to lead the pupil to do his own reasoning, and to present the work in such a manner as to appeal to the practical common-sense as well as to the imaginative ability of the pupil. In most of the schools visited the arithmetic and reading were usually good; history and geography, however, become too often dry and lifeless subjects owing to the methods of presentation to the class.

High School Entrance Examinations were held in eleven centres in this inspectorate in June last. The Governor-General's medal for the inspectorate was won by Philip Clark Fraser, a pupil in the Salmon Arm City School. The quality of the work performed in the Senior Division of this school throughout the year is most commendable, and the high percentage of successful candidates from this school in the recent High School Entrance Examination, as well as the excellent standing in all subjects, is a fair criterion of the character of the teaching.

The prizes awarded for physical training under the provisions of the Strathcona Trust for the past school-year were as follows:—

First—Mr. Horace Hurn, 2nd Division, Merritt Superior School.

Second—Miss Kathleen Lawrence, 10th Division, Kamloops Public School.

Third—Miss Margaret Wright, Louis Creek Public School.

In closing, I wish to thank the various teachers and members of School Boards throughout the inspectorate for the many courtesies extended to me, and for their hearty co-operation in the work of inspection and in the other duties connected with my work. As my knowledge of conditions in the territory over which I travel increases, the more fully I realize the difficulties that confront the settlers in new districts in providing educational facilities for their children, and the more I appreciate their whole-hearted efforts to facilitate in every way the work of the Department in the establishment and administration of the schools.

I have, etc.,

A. F. Matthews,

Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 10.

Kelowna, B.C., August 23rd, 1921.

S. J. Willis, Esq.,

Superintendent of Education, Victoria, B.C.

Sir,—I beg to submit herewith my annual report in respect of the public schools of Inspectorate No. 10 for the school-year ended June 30th, 1921.

A steady and considerable growth has been evidenced during the past few years. In 1919 there were 129 teachers employed in the various schools of this inspectorate; in 1920 there were 146; and for the present year 160. Since last September the schools at Bear Creek and Woodville Road have been reopened and a new school established at Trinity Valley; additional divisions have been in operation at Armstrong, Vernon, Woods Lake, Kelowna, East Kelowna, South Okanagan, Summerland, Penticton, Naramata, Princeton, and Copper Mountain. In addition, schools have been authorized and will be in operation during the coming term at Trinity Creek, Ewing's Landing, Hillcrest, and Oliver. During the past year the division of teachers among the various districts was as follows:—

	Schools.	Teachers.
City municipality districts	11	54
Rural municipality districts	8	31
Rural schools	21	42
Assisted schools	32	33
Totals	72	160

To accommodate the increased school population extensive building operations have been necessary. At Armstrong and Penticton large and fully modern school-houses have been erected;

at Vernon, through the generosity of the Provincial Government, the old Court-house is being converted into a very satisfactory four-room school; two-room buildings were completed at Woods Lake and at Copper Mountain; while arrangements have been completed for additions to the existing buildings at Oyama, East Kelowna, and Westbank, and for a two-room school at Oliver. Despite these very considerable improvements, the problem of accommodation is a critical one; in most of the urban districts every available class-room will be filled in September and a number of rural schools will be materially overcrowded.

The provision of high-school facilities in rural districts continues to receive a good deal of attention, both from parents who are directly concerned and from public-spirited ratepayers who are interested in the development of their local districts. With this end in view, superior schools have been established at Westbank Townsite and at Oyama, while similar arrangements are under consideration at other points.

In general, conscientious, painstaking, and reasonably efficient class-room work has been the rule. More frequently than in previous years extremes of good and of bad have been met, but this is undoubtedly a coincidence rather than due to any specific reason. In most of the graded schools good results have been secured, while a similar statement is true of a few of the smaller schools, which have been fortunate enough to retain proven teachers or to secure unusually capable ones. The constant migration of rural teachers, referred to in earlier reports, still continues, as is evidenced by the presence, during the past year, in the ninety-seven class-rooms of the ungraded and semi-graded schools, of 121 teachers, of whom only twenty-two were in these schools prior to September 1st last. The salary paid by most of these schools has been at least $1,200 per annum, yet teachers remain no longer than when the remuneration was much less—a clear indication that the appeal of the graded school does not lie solely or chiefly in dollars and cents.

I have, etc.,
A. R. LORD,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 11.

REVELSTOKE, B.C., August 15th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit herewith the following report on the public schools of Inspectorate No. 11 for the school-year ended June 30th, 1921:—

During the year the following assisted schools were opened: Bellevue, across the Columbia River from Burtondale; Birchbank, a few miles north of Trail; Carroll's Landing, about midway between Burtondale and Arrow Park, East; Champion Creek, about 8 miles south of Brilliant; Norwegian Creek, between Boundary Falls and the International Boundary-line; and Spencer, a few miles to the south and west of Grand Forks. The school at Parson, in the Upper Columbia Valley, was reopened, and an additional division was opened in each of the following schools: Brilliant, Grand Forks, and Trail Central. The schools at Berrydale and Moberly were not in operation during the year, and the school at Phoenix has been discontinued owing to the cessation of mining operations at that point. Two divisions were closed out of the Revelstoke schools, which are now being operated as one school unit under a supervising principal, and one division of the Rossland School was also closed during the entire year. In all, there were ninety-five schools in operation in this inspectorate during the school-year, with a total staff of 154 teachers, a net increase over last year of three schools and two teachers. Of these totals, seven were graded city schools with a staff of fifty-six teachers, three were graded rural schools with a staff of nine teachers, two were graded assisted schools with a staff of six teachers, eleven were ungraded rural schools, and the remaining seventy-two were ungraded assisted schools.

For the first time in three years there was comparatively little interruption due to sickness, and a correspondingly higher standard of attainment was thus made possible. A marked improvement in the results of the Entrance Examinations can also be noted, particularly in the case of candidates presented by the ungraded schools.

The percentage of change in the teaching staff, while not so great as last year, is still considerably above the average, and it is sincerely to be hoped that this veritable menace to efficiency may speedily be reduced to a more reasonable minimum.

I have, etc.,
A. E. MILLER,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 12.

NELSON, B.C., September 20th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit a report on the public schools of Inspectorate No. 12 for the year 1920–21.

The assisted schools of Elk Prairie, Standard Mine, and Nine-mile Creek did not reopen after the summer vacation owing to an insufficient number of pupils, and during the year one division of the Moyie School was closed from the same cause.

In Cranbrook, Fernie, Bull River Bridge, Camp Lister, Corbin, Salmo, and Wardner an additional room was added to each school to care for the increasing school population. After being closed for two years the Gray Creek School was reopened and new schools were established at Passmore and Three Forks. One hundred and seventy-five class-rooms were in operation during the year.

Owing to the large number of schools and the many special trips made to different parts of the inspectorate it was not possible for me to make two visits to each class-room, but all classes in continuous operation throughout the year received one inspection, while a few were given a second visit.

The extension of the boundaries of Nelson City to include Fairview brought the Hume School under the control of the Nelson Board. A careful survey of the results of the June Entrance Examinations would seem to indicate that the work being done in the public schools of this inspectorate will compare favourably with anything in the Province. With two or three exceptions, the rural and assisted schools made a very creditable showing.

In many of the schools careful and conscientious work is being done. Wherever there is evidence of thoughtful preparation of the work by the teacher the standing of the school is almost invariably satisfactory. Too frequently arithmetic is merely a "seat-work" subject, and insufficient mental drill in combinations, separations, and multiplication tables is resulting in the "counting habit." Many teachers complain of the untidiness of the work of the class, but, at the same time, they accept the untidy work. The brighter pupils often get the larger share of attention. Teachers should remember that our schools are not intended to produce intellectual phenomena and that the aim should be to assist the slower pupils to a reasonable average of attainment.

The bridging of the gulf between the standards of the average city school and those of the average rural school is a problem which demands the most careful consideration. The successful rural teacher finds little difficulty in obtaining a position in a graded city school at a larger remuneration than she would receive in the country.

From the standpoint of national development, there is no other single force in the Province which determines to such a degree the success of the future as the teaching staff of the elementary and secondary schools, and no other influence which should tend to so great an extent to mould a sane public opinion.

The responsibility of the teacher is great—the remuneration should be in proportion to the responsibility. A few teachers are not worth their salary; the majority are worth more than they receive.

In many of the rural schools there has been a decided improvement in comfort and equipment and seldom have I found School Boards who were not prepared to recommend to their ratepayers an increased budget for the coming year.

I have, etc.,
E. G. DANIELS,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 13.

PRINCE RUPERT, B.C., August 31st, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I have the honour to submit the following report on the public schools of Inspectorate No. 13 for the year ended June 30th, 1921:—

During this year the following assisted schools were opened: Firvale, 30 miles up the Bella Coola Valley; Lawn Hill, on the east coast of Graham Island, Queen Charlotte; Hanall, 3 miles east of Usk; Evelyn, 9 miles west of Smithers; Glentanna and Driftwood Creek, about 8 miles north-west of Smithers; Topley, 32 miles west of Burns Lake; Decker Lake, 5 miles west of Burns Lake; and Tchesinkut Lake, between Burns Lake and Francois Lake. Round Lake and Buckley Bay Schools were reopened, and an additional room was opened in each of the following schools: Ocean Falls, Granby Bay, Prince Rupert, Kitsumgallum, Usk, and Smithers. The schools at Metlakatla and Inverness were not in operation and Skidegate was closed before the end of the year. In all, there was a net increase of thirteen teachers over the previous year.

The following schools have been established and will be in operation next term: Hunter Island, near Bella Bella; Oona River, on Porcher Island; Kitwanga and Quick, on the Grand Trunk Pacific; and Uncha Valley and Tatalrose, on the south side of Francois Lake. A large percentage of this increase has been in the Omineca District, where the number of teachers this next term will be almost 100 per cent. greater than when I took over the district two years ago.

The new school buildings at Granby Bay and Telkwa were ready for occupation at the beginning of the year and were found both creditable and comfortable. Prince Rupert has ready for use this fall a modern twelve-room brick school which will compare favourably with any other school in the Province. This will relieve the congestion in this city which has been apparent for several years. A three-room addition has been made to the Kitsumgallum School and two rooms are being added to the Smithers School.

Entrance Examinations were held at seventeen centres, where 109 candidates presented themselves. Of these, 58 pupils, or 53 per cent., were successful. The number of candidates this year marks an increase of 147 per cent. over that of last year, when forty-four candidates wrote the examination. In addition, forty pupils of Prince Rupert schools were granted promotion to high schools upon recommendation of the principal. This is also an increase of thirty-three per cent. over the previous year.

In view of this increasing number of pupils passing the Entrance Examination, it is gratifying to note that a superior school has been established at Smithers and that Granby Bay and Ocean Falls are taking steps to provide high-school education for pupils who have completed the Course of Studies of the elementary school. The new regulation pertaining to the number of pupils required for the establishment of high and superior schools effectually meets the demand in this district for high-school privileges.

The Governor-General's medal for the highest mark in the Entrance Examination in the Inspectorial Districts of Prince Rupert and Prince George was won by Reid Lewis McLennan, Borden Street School, Prince Rupert.

Prizes awarded under the provisions of the Strathcona Trust were as follows:—

First—Miss Lena Wolfenden, 2nd Division, Ocean Falls.
Second—Miss A. M. MacKinnon, 4th Division, Prince Rupert.
Third—Miss Jessie Rothwell, 3rd Division, Prince Rupert.

Reports upon the schools individually have been forwarded to you from time to time, so further comment would be superfluous, except to say that on the whole the work of the teachers and the spirit in which it was undertaken in the majority of schools was highly commendable and satisfactory.

I have, etc.,
J. M. PATERSON,
Inspector of Schools.

PUBLIC SCHOOLS—INSPECTORATE No. 14.

PRINCE GEORGE, B.C., August 12th, 1921.

S. J. Wilis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit the following report on the schools of Inspectorate No. 14 for the school-year ended June 30th, 1921:—

The boundaries of Inspectorate No. 14 remain unchanged from last year. The inspectorate comprises the schools in the Grand Trunk Railway Belt east of Endako; those in the Cariboo and Lillooet Districts as far south as the 100-Mile House; those in the Canadian Northern Railway Belt as far south as Blue River; and those in the Peace River District.

During the past year there has been a steady growth in the school population throughout the inspectorate. Schools were opened for the first time at Aleza Lake, Canim Lake, Hulatt, Orange Valley, Miocene, Penny, Swan Lake (Peace River), Tate Creek (Peace River), Taylor's Flats (Peace River), and Williams Lake. New schools were authorized and should soon be in operation at Bear Head, Meadowdale, Stone Creek, Stuart Station, and Willowvale. Additional teachers were appointed to the Prince George and Vanderhoof staffs and the school at Braeside was reopened. The assisted schools at Hartley, Rose Valley, and Stuart River remained closed throughout the year.

Owing to the large number of new and widely scattered settlements springing up in this northern section of the Province my work is largely of a pioneer nature. Class-room inspection is perhaps the smaller part of my work, a good portion of my time being taken up with organization duties. Practically all the schools, however, have received at least two visits during the year.

On the whole the general standing of the schools within this inspectorate is not of a high order. This condition is due in no small measure to the fact that the teachers change so frequently that good results are impossible. In many of the schools a new teacher, very often a beginner, appears each year, and frequently a change of teacher is effected at the end of each terms. A number of the schools in these northern parts are handicapped year after year by the employment of unskilled, temporary certificated teachers, who have little knowledge of our courses, standards, and methods. Inability to organize the work of their class-rooms constitutes the chief criticism of the teachers in the one-room schools of this inspectorate. Although many of the teachers present the individual subjects comparatively well, they are unable to prepare a well-balanced time-table in which each subject in each of the classes receives due consideration.

Although the school accommodation in many of the districts is as yet far from satisfactory, a gradual improvement is being effected. Nearly half of the districts are now voting assessments for the purpose of providing funds with which to operate the schools and improve school property. A number of the assisted districts have recently erected very commendable buildings, and in one of them, Willow River, a comfortable teacher's residence has been provided. At Vanderhoof a modern four-room building is in course of erection, and an eight-room building is being provided for in the Prince George District.

During the past year the teachers within this inspectorate have made a greater effort than heretofore to teach systematically the prescribed courses in physical training. In some of the schools the results in this department of school-work have been very commendable. The prizes for excellence in physical training were awarded as follows:—

First—Miss E. Milligan, 5th Division, Prince George School.
Second—Miss Drina Fraser, Fort Fraser School.
Third—Miss Marjorie Baker, 2nd Division, McBride School.

I have, etc.,
G. H. GOWER,
Inspector of Schools.

REPORT OF MUNICIPAL INSPECTORS.

VANCOUVER CITY SCHOOLS.

VANCOUVER, B.C., August 31st, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit the following report on the public schools and high schools of this city for the school-year ending June 30th, 1921:—

STUDENTS AND TEACHING STAFF.

During the year there was an increase of 978 students, but owing to the lack of class-room accommodation the net increase in the teaching forces was only fifteen. The changes in the various staffs are indicated in the following summary:—

Public schools			from 409 to 416
General classes	from 392	to 399	
Special classes	„ 12	„ 16	
School for the Deaf (taken over by Government)	„ 4	„ 0	
School for the Blind	„ 1	„ 1	
High schools			„ 69 „ 78
General Course	from 46	to 51	
Commercial Course	„ 11	„ 11	
Boys' Technical Course	„ 9	„ 13	
Home Economics Course	„ 3	„ 3	
Manual training			„ 23 „ 18*
Domestic science			„ 12 „ 13
Special instructors			„ 6 „ 9
Total			from 519 to 534

* Last year five instructors working in the Technical Department of King Edward High School were counted in the manual-training group. Since the opening of the Technical School they are grouped with other Technical School teachers. The decrease at this point is therefore only an apparent one.

SCHOOL ACCOMMODATION.

In my report for the school-year 1919–20 I spoke of the unsatisfactory results obtained in the primary grades of the public schools from part-time tuition made necessary by a lack of adequate class-room accommodation. For the first term of the past year an attempt was made to improve conditions. Our schools were reorganized with an average enrolment of approximately forty-five per class instead of forty as formerly. This resulted in a reduction of fourteen in the teaching staff and reduced the number of part-time classes from thirty-four to two. It led, however, to overcrowded class-rooms, making effective teaching in many instances extremely difficult—in others impossible. In October, when the enrolment was 17,993, there were seventy-eight class-rooms with an enrolment of nearly fifty and twenty-four others with fifty or more each. Notwithstanding these conditions, which were well known to the public, the school money by-laws for amounts totalling $241,000, submitted to the ratepayers in January, were defeated. Consequently, when 1,077 more Receiving-class pupils were enrolled in February, to overcrowded classes was added part-time tuition—thirty-four part-time classes having to be organized for the remainder of the year.

The presence of these two evils, part-time tuition and overcrowded classes, for the last term of the year, and the conviction that money could not be secured by submitting money by-laws to the ratepayers, led the Board to decide "that hereafter no 6-year-old children will be admitted to the schools unless money be provided to erect more class-rooms in which to accommodate them." This drastic, though necessary, resolution brought a measure of temporary relief. An agreement

was reached between the Board and the City Council permitting the former to spend a limited amount of money for school-construction if the amount expended be taken out of the Board's revenue for the year. This will help for a time, but it is by no means a satisfactory solution. By erecting an inexpensive eight-room school on the Strathcona grounds from materials obtained largely from the old school, and providing eighteen rooms in very inexpensive one- or two-room frame buildings in districts where they are needed, we expect to have class-rooms for all public-school pupils in September, though some classes may be overcrowded. February of the coming year, however, will again find us with no class-rooms for about 1,000 pupils. Using for the erection of new class-rooms moneys urgently needed to keep existing buildings in proper repair will in the end prove an expensive expedient. The sooner, therefore, we have legislation making it possible for School Boards to obtain sufficient funds to provide proper class-rooms for an ever-increasing school population, and at the same time keep existing buildings in proper repair, the better.

The congestion in the high schools was relieved by the opening of the Vancouver Technical School on March 1st, 1921, in what was formerly the Labour Temple. This building, purchased and remodelled by the Provincial Government and rented to the Board as a technical school, has been well equipped and will meet the needs of technical students for a few years. The opening of it has also left rooms, vacated by the technical students at King Edward School, for additional high-school students in the coming year.

Survey of Sewing in the Grades.

There has been practically no supervision of sewing in the Vancouver schools since 1915; and, as was to be expected, the work has greatly suffered. From a survey made by one of our most competent domestic-science teachers early in the year, it was found that not more than 20 per cent. of the teaching could be regarded as satisfactory. This represented a great loss, as there were about sixty teachers and over 1,000 girls who should be spending profitably one half-day a week at sewing. The Board has consequently appointed an expert in needlework to be a teacher of the many lady teachers who enter our schools unprepared to teach sewing.

Physical Culture for High-school Girls.

Another forward step taken during the year was the appointment of an instructress in physical culture for high-school girls. The work done along this line already has abundantly demonstrated its importance. It is to be regretted, however, that the lack of proper gymnasium facilities will make it impossible to extend this work for some time to include all high-school girls as it should.

Extension of Special Class-work.

Notwithstanding the difficulties experienced in finding additional class-room accommodation, four more special classes were opened. It has been found that the removal of special-class children from the ordinary classes makes it possible to increase the size of the latter and do better work than could be done in smaller classes handicapped by the presence of subnormal pupils. The work now being done in Vancouver in the special classes is conceded by experts in such work to be of a very high order. I cannot speak too highly of the unfailing devotion to duty of the members of the staff who are carrying on this important but trying work.

The Work of Supervisors.

The supervision of drawing, music, physical training and cadet-work, primary work and special-class work was carried on throughout the year by supervisors giving full time to supervision.

In manual training and home economics, however, the supervisors taught the greater part of their time in high schools. The results, in consequence, were not as satisfactory as supervisors and teachers could wish. This was particularly noticeable in the Home Economics Department, where there was almost an entirely new staff of teachers, many of whom were new to the work in this Province. I am pleased to report that the present School Board, recognizing this condition, is now prepared to appoint a supervisor to devote full time to the work.

MEDICAL INSPECTION.

The work of medical inspection was energetically carried on by Dr. Robert Wightman and his staff of two lady doctors and eight nurses. The value of the work done in this department, not only in the immediate prevention of disease but in the education of children, parents, and the public generally along hygienic lines, cannot be overestimated. The campaign being waged by the Medical Department of our schools to bring every school-child up to normal physically is meeting with enthusiastic public support.

THE DENTAL CLINICS.

After seven years of absolutely free dental treatment for children of parents with small incomes, it was found that the most of such cases were completed. Last year the work was extended to include the children of parents with moderate incomes who could not pay ordinary dental fees and would not accept free treatment. Many children of such parents are now cared for in the school clinics on the payment of a nominal fee.

NIGHT-SCHOOLS.

A survey of the year's work would not be complete without reference to the night-schools. The work in these was extended to include Third-year Electrical Engineering, Cabinetmaking, Plumbing, Ladies' Tailoring, Salesmanship, Science Course for Teachers, and Mathematics for Teachers. Forty-two teachers were employed and the enrolment of students reached a total of 1,686, distributed as follows:—

Continuation classes	128
Art and Show-card Work	107
Modern Languages	52
Music	158
Engineering	209
Carpentry and Cabinetmaking	43
Electrical Engineering	195
Commercial Courses	420
Plumbing	70
Elocution and Speaking	63
Short-story Writing	20
Teachers' Courses	17
Domestic Science	204

The attendance of the students and the interest taken by them in their classes was most encouraging.

SALARIES.

No great changes were made in the salary schedule in January, 1921. Salaries ranging from $1,800 to $3,200 were increased but little; those ranging from $1,080 to $1,600 were considerably increased, the Board considering the teachers drawing such salaries poorly paid. For the first time, too, in Vancouver, the Board, finding it impossible to secure the services of young men for salaries paid to ladies, made a special salary schedule for male assistants in the public schools. This has already had the desired effect of increasing the number of young men teachers; but the indications are that better salaries still will have to be offered if a sufficient number of young men of ability are to be attracted to and retained in the teaching profession. Though the present salary schedule seems in the main fairly satisfactory, the experience of the past few months indicates a few further changes which seem desirable. I trust these will be made in the coming year.

SCHOOL SPORTS AND ATHLETICS.

The importance of school sports is being more and more recognized by our teachers and an ever-increasing number of them are interesting themselves in the physical well-being of the children. In the opening term of the past year over 100 of our teachers spent time and money to qualify themselves the better to carry on the work of physical training in their classes. This work must necessarily make considerable inroads on the time for study, which is now none too long; but it is valuable and has come to stay. May we not look forward to a six-hour school-day in the not-distant future, with one-sixth of it devoted to the physical needs of the children under

the direction of teachers well qualified for such work? It would be a boon to both teachers and pupils.

GENERAL OBSERVATIONS.

Notwithstanding the inconveniences experienced by many engaged in the schools of Vancouver during the past year, school-work was never carried on more enthusiastically. The manner in which teachers strove to rise superior to adverse circumstances and the endeavours of pupils and parents to meet philosophically trying situations rendered the administration of the schools much easier than it otherwise would have been. The active interest in our schools of influential public bodies was never greater, never more needed, and never more highly appreciated. While many clubs and associations might be mentioned in this connection, the Parent-Teacher Associations are deserving of special commendation. Their efforts on behalf of the schools have been increasing and varied, serving as a stimulus to school workers in all departments.

I am pleased to report also that for the year just closed our school-life has been characterized by a sane, unostentatious patriotism which augurs well for the future. This patriotism possibly found its highest expression on June 23rd, when nearly 6,000 pupils and teachers met in Stanley Park to celebrate the fiftieth anniversary of British Columbia's entry into Confederation.

In closing, I wish to express my appreciation of the continued kindly relations that have existed between the Education Department and the Vancouver School Board.

I have, etc.,

J. S. GORDON,

Municipal Inspector of Schools.

PROVINCIAL NORMAL SCHOOLS.

VANCOUVER PROVINCIAL NORMAL SCHOOL.

VANCOUVER, B.C., September 12th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit the report of the work of the Provincial Normal School, Vancouver, for the school-year ended June, 1921.

AUTUMN SESSION.

The session opened on September 7th, 1920. The enrolment for the session was 239. Of this number, 48 were taking the Advanced Course and 191 the Preliminary. During the session 3 of the Preliminary class withdrew, and the session closed with an attendance of 48 Advanced and 188 Preliminary students. To 46 of the Advanced class Advanced diplomas were granted, while the two remaining members of the class were granted Preliminary diplomas.

Diplomas were granted to 172 of the Preliminary class, 11 were allowed to enter the advanced session conditionally, and 5 failed.

The opening of the session in September saw several changes on the teaching staff. Mr. Wm. Burns retired from the position of principal at the end of August, 1920. For twenty years he had served as principal of the Normal School. Hundreds of teachers throughout the Province will bear testimony to his untiring and conscientious work in the Normal School. To them his life and work will always be an inspiration. We were pleased to have Mr. Burns deliver one lecture a week to the Advanced class until the close of the session in December.

Mr. A. E. C. Martin joined the staff in September. Mr. Martin brought to his work in the Normal School a ripe experience in public- and high-school work in the Province.

From September to March Miss Coney was on leave in England. While there she took a Course in Eurythmics and visited many of the English training-schools. During her absence Miss Ida Morris filled the position of music instructress most satisfactorily.

ADVANCED SESSION.

For the first time in several years the Advanced Course only was conducted during the winter session. The change was most welcome. While occasionally good students entered in January for the Preliminary Course, this was the exception. Our Preliminary class in January was, as a rule, composed largely of our own failures, together with failures from the University.

The total enrolment for the advanced session was 182. Of the 11 who passed conditionally in December, 10 returned in January. One of these withdrew, and in February the remaining 9 were granted Preliminary diplomas. Seven withdrew during the session. Thus we finished with an enrolment of 174. At the close of the session 169 were granted Advanced diplomas and 5 failed.

Work for the next year was apportioned as follows: The Principal—Grammar, class-room management, registers and reports, psychology. Mr. Murphy—History and geography. Mr. Weston—Drawing and painting. Mr. MacLean—Writing, nature-study, school-gardening, hygiene. Mr. MacIntosh—Reading, language, composition, literature, spelling. Mr. Martin—Arithmetic, history of education. Miss Burpee—Primary work. Miss Coney—Music. Sergt.-Major Instructor Wallace—Physical training.

All students in attendance since September, with the exception of two, qualified for the certificate of physical training. I consider that it would be greatly to the advantage of our students if the Course in Physical Training could be continued throughout both preliminary and advanced sessions. It does not seem in the best interests of our students to crowd the entire Course of Training into twelve or fifteen weeks. We shall be very pleased if, during the ensuing year, each of the Normal Schools of this Province has an instructor for this very important branch of training.

During the year our students have had, on an average, thirty-five lessons to teach in the practice schools. I wish to take this opportunity to thank the teachers of the Model and Cecil

Rhodes for their very kindly assistance in this most important department of the training of our students.

While our students have given close attention to their professional duties, the literary, athletic, and social sides of Normal School life have not been overlooked. The Literary Society has presented many entertaining and instructive programmes during the year. The Athletic Society has fostered basket-ball, badminton, tennis, hockey, and indoor baseball. The usual autumn and spring dances, school parties, and picnics have served to develop among the students the best school spirit.

I have, etc.,
D. M. ROBINSON,
Principal.

VICTORIA PROVINCIAL NORMAL SCHOOL.

VICTORIA, B.C., September 26th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I have the honour to submit the following report on the work of the Provincial Normal School at Victoria during the school-year which ended June 30th, 1921:—

The number in attendance was:—

	Sept. to Dec., 1920.	Jan. to May, 1921.
For the Advanced Course	14	89
For the Preliminary Course	101	..
Totals	115	89
Number that withdrew during the session	1	2
Number that failed to qualify	2	5
Number awarded diplomas	112	82
Totals	115	89

From this table it may be noted that the plan of conducting Advanced and Preliminary Courses simultaneously was discontinued at the end of the year 1920. In this the Department of Education has pursued a most desirable policy. The energy of the Normal School instructors may now be concentrated upon preliminary work in the fall session and upon the more advanced work during the spring session. This will result in more thoroughly trained teachers and hence more efficient work in the elementary schools of the Province.

The personnel of the staff underwent changes during the year. Mr. E. Howard Russell, Professor of Mathematics in the Victoria Arts College, took charge of the instruction in music. Mr. Russell's ability in this work is so well known that comment is unnecessary. Miss A. M. Macfarlane, following the resignation of Miss Lexa Denne in July, 1920, was appointed to the Department of Household Economics. Miss Macfarlane, who is a graduate of Macdonald College, St. Anne de Bellevue, Quebec, had given three years of excellent service in the Domestic Science Departments of the common and high schools of the Okanagan Valley. The high standard of the work she has done during the year has shown the wisdom of the Department of Education in promoting her to the Faculty of this school. In July, 1920, Miss Florence N. Maclean was appointed Secretary and Librarian. Miss Maclean, who is a graduate of this school, is a fully certificated teacher. This qualification, combined with her superior ability in secretarial work, has uniquely fitted her for her duties. The apportionment of work among the other members of the staff has remained unchanged.

The generous policy inaugurated by the Department of Education of assisting members of the staff to attend summer sessions at leading universities was put into effect in this school during the summer of 1920, when Miss Kate Scanlan, Principal of the Model School Department, attended the summer session of the University of California at Los Angeles. New features that

have appeared in the already excellent work of this teacher provide but one more instance of proof that a true teacher is ever a learner and should be given opportunity periodically to become a learner.

It gives me pleasure to report that it was the unanimous opinion of the Faculty that the students who were trained in this institution during the year 1920–21 were, with few exceptions, admirably adapted to the work of the teaching. Not only was the work of the year encouraging and pleasant, but it was with a feeling of more than usual confidence that diplomas were granted to these young teachers permitting them to assume the fuller responsibilities of actual service. Nevertheless, in spite of the natural aptitude and happy temperament of these young teachers-in-training, it was again borne in upon those in charge of their training that a more extensive and a more thorough groundwork is necessary in knowledge of the subjects that they are going to teach before a professional training in the art of teaching those subjects can be adequately given. In several of these subjects they have received little, if any, instruction during their high-school course. Hence the knowledge they have acquired in the elementary school is assumed to be a sufficient basis for their professional training. The one-year course of Normal School instruction is hardly long enough to provide both academic and professional training. Further, may I again urge that, with an ever-increasing number of graduates in Arts from our Provincial University, the demand for the establishment of a training course for high-school teachers is becoming imperative. Were such a course established, it would provide not only much-needed training, but it would prove to be an incentive that would turn more and more of these graduates into the teaching profession, and thereby tend to augment a supply that at present is inadequate to the demand.

I cannot conclude this report without once more expressing my thanks to the staffs of the Model School, the North Ward School, and the Bank Street School for their helpful co-operation in our work, and to all those citizens from outside our profession who by addressing our students from time to time afforded us inspiration.

I have, etc.,
D. L. MACLAURIN,
Principal.

TECHNICAL EDUCATION.

REPORT OF THE ORGANIZER.

VICTORIA, B.C., October 11th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit the following report on manual training, domestic science, night-schools, and technical education for the year 1920–21:—

MANUAL TRAINING AND DOMESTIC SCIENCE.

It is very gratifying to report that an increasing interest in the above subjects is taken by school principals and teachers generally, as the complete success of the work depends in a great measure on the way the contents of these courses, which are inseparable from home-life, are linked up with kindred class-room studies.

The educational authorities have always maintained that manual-training and domestic-science centres must be an integral part of the school system, and that the activities in the workshops and cookery centres must emphasize the book lessons of the class-rooms, making them more realistic and thus firmly fixing them in the minds of the pupils. For these reasons it is satisfactory to know that there is a growing co-operation between the manual-training teachers and the school staff.

Owing to the conscientious work of the instructors, manual training is becoming firmly established throughout the Province. The men invariably display earnestness and enthusiasm in conducting their work, and with very few exceptions show a commendable desire to succeed. The fact that the Province of British Columbia has more manual-training instructors than any other Canadian Province except Ontario is conclusive proof that the subject has gained public confidence.

Thirteen men who wish to become manual-training instructors attended the summer-school training class held in the Vancouver Technical School during the summer holidays. The course of study is acknowledged by the Manual Training Teachers' Association to be of such a nature as will effectively equip men with the essentials for conducting the manual-training work in an elementary school centre. There was no difficulty in securing a class of school-boys of Third Reader Grade to attend a class in woodwork, and these beginners provided the practical teaching problems for the prospective manual instructors. This course will be followed by a series of classes held on Saturday afternoons, thus providing an opportunity to complete 700 hours' tuition, which is the number demanded of all candidates.

Twelve manual-training instructors from the elementary schools attended a summer school to participate in the training which would qualify them to teach in high schools. A reproduction of a group of metal repoussé on an adjoining page will show the standard of their work, and will illustrate to some extent the way in which craftsmanship and artistic taste combine to form an appreciation which may be worthily considered educational.

Classes in Manual Training and Domestic Science were conducted in the following cities: Armstrong, Chilliwack, Cranbrook, Kelowna, Mission, Nanaimo, New Westminster, Nelson, North Vancouver, Prince Rupert, Vancouver, Vernon, and Victoria. Similar classes were also held in the following municipalities: Burnaby, Chilliwack, Delta, Esquimalt, Maple Ridge, Penticton, Point Grey, Pitt Meadows, Rutland, Saanich, Summerland, and South Vancouver.

The following statistics for 1920–21 may be of interest and are here inserted:—

79 manual-training centres.	51 domestic-science centres.
62 instructors.	46 instructors.
8,349 elementary pupils attending.	6,362 elementary pupils attending.
1,436 high-school pupils.	1,326 high-school pupils.

DOMESTIC SCIENCE.

Although in this sphere of activity British Columbia again ranks next to Ontario in the number of teachers engaged, yet from the foregoing it will be observed that domestic science

has not made the same strides as the subject of manual training, nor has it obtained such a strong hold on public confidence. This is regrettable because the subject is one which is undoubtedly necessary and worthy of a prominent place in any educational system.

The work of training domestic-science teachers in Canada has been somewhat curtailed in recent years, and this, together with the growing demand for their services, has led to an increasing difficulty in obtaining instructors. The existing conditions would thus seem to make the organizing of a teachers' training class desirable. One practical way to do this would be to select school-teachers who have had previous domestic-science training and provide a Saturday morning class in either Vancouver or Victoria at which they could attend. Work taken at the Saturday morning classes, supplemented by courses taken at the summer school, would give an opportunity for very effective study to those who wish to become domestic-science teachers.

Such classes as are here alluded to have been and are being conducted for men who wish to become instructors of manual training. An Entrance Examination is held for admission and the Course of Study extends over 700 hours. Even the most sceptical must now concede that this manual-training scheme has been entirely successful; therefore a similar scheme might well be evolved for training domestic-science instructors, and the Province would thus have teachers at their command when required.

TECHNICAL COURSE.

Technical schools are now organized in the Cities of New Westminster, Vancouver, and Victoria. The Course of Study is composed of the following subjects: English, citizenship and economics, mathematics, mechanics, physics, electricity, drawing and design, woodwork, chemistry, sheet-metal work, forge-work, and machine-shop work.

The time-table in the Vancouver Technical School showed several classes with periods for practical work too short in duration, but a remedy was promised when the staff was increased. There seems to be a decided antipathy to lengthening the school-day in the technical schools. Where practical industrial machine-work is being carried on it is difficult to see why opposition should be made to a gradual increase in the school-day until the usual shop-day of eight hours is reached—viz., six hours for the first year, seven hours for the second, and eight hours for the third.

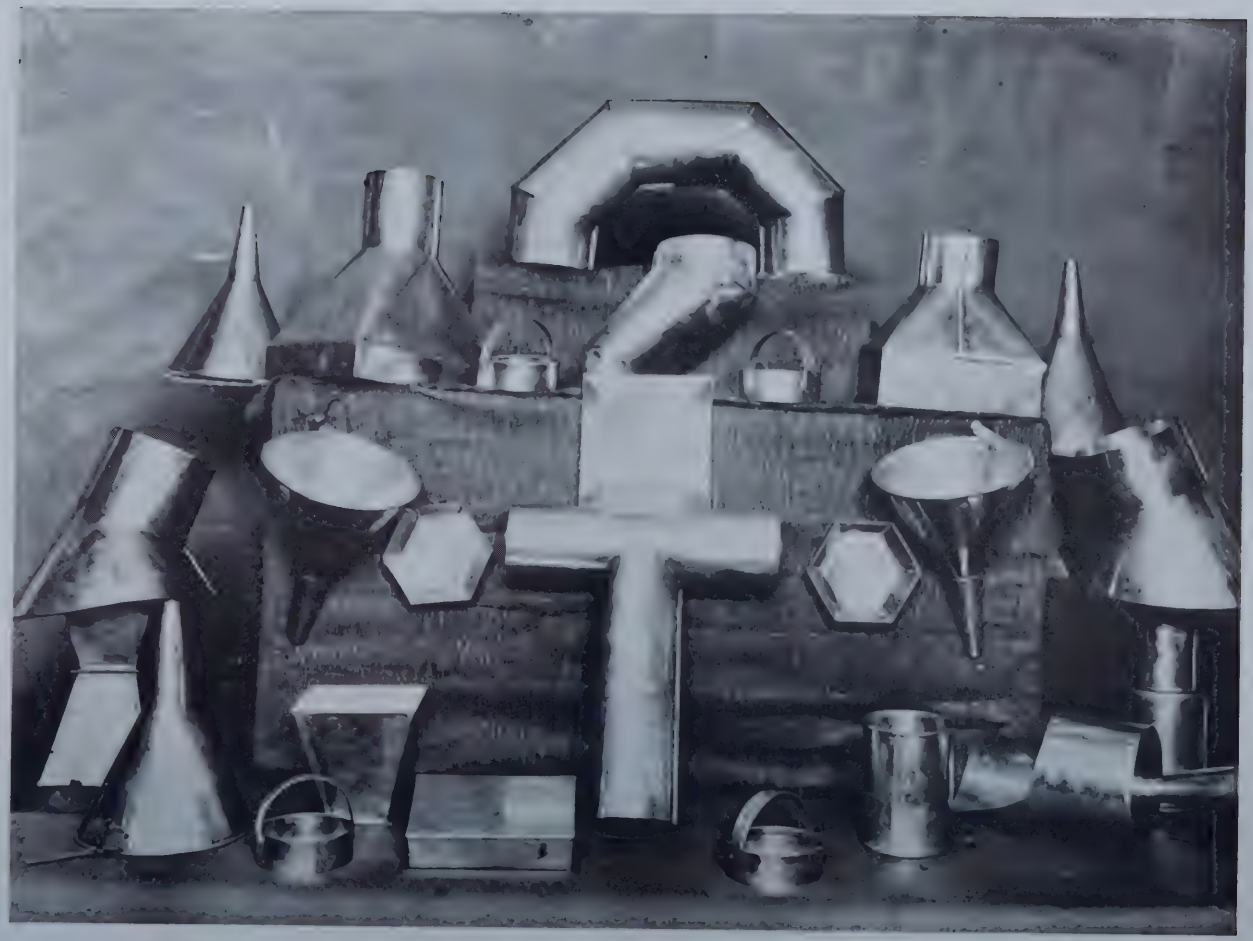
Vancouver City shows indications of being first in the Province to establish intensive trade courses attached to labour organizations in the work of apprenticeship training. Some development along this line may be looked for next year, but a great deal of organizing is required to be done before such can be accomplished. At present it is possible to obtain short courses in preparation for the examinations held in navigation and for stationary engineering. Sheet-metal workers and printers may be the next industrial people to become directly connected with the technical school. It yet remains for a school of design to be organized, and the importance of such an institution lies at the heart of all workmanship worthy of the name. The school of design should be closely associated to the technical school, as design and manufacturing should not be divorced.

New Westminster has now a well-equipped school and the coming year will show great advancement in the work of the pupils. The shops are roomy and all that could be desired for practical purposes.

The workshops in Victoria also are well fitted. The Course of Study for the first year is all that could be desired and the boys show remarkable aptitude in their work. The three cities named have shown commendable economy in establishing and equipping the necessary places wherein to train students along technical and industrial lines.

As a rule, boys who take the Technical Course aim at obtaining the technical leaving certificate, but those who wish to matriculate to the University of British Columbia are taught in a separate class, as it is necessary to rearrange the technical curriculum in the second and third years in order to replace certain subjects by those which give matriculation standing. Special technical papers in chemistry, physics, and practical mathematics are set for the Matriculation Examination, but an extra science subject, together with Latin or French, must be added in order to prepare for the requirements of the University.

Technical School, Vancouver.



Basic sheet-metal projects from the Manual Training class, Summer School.

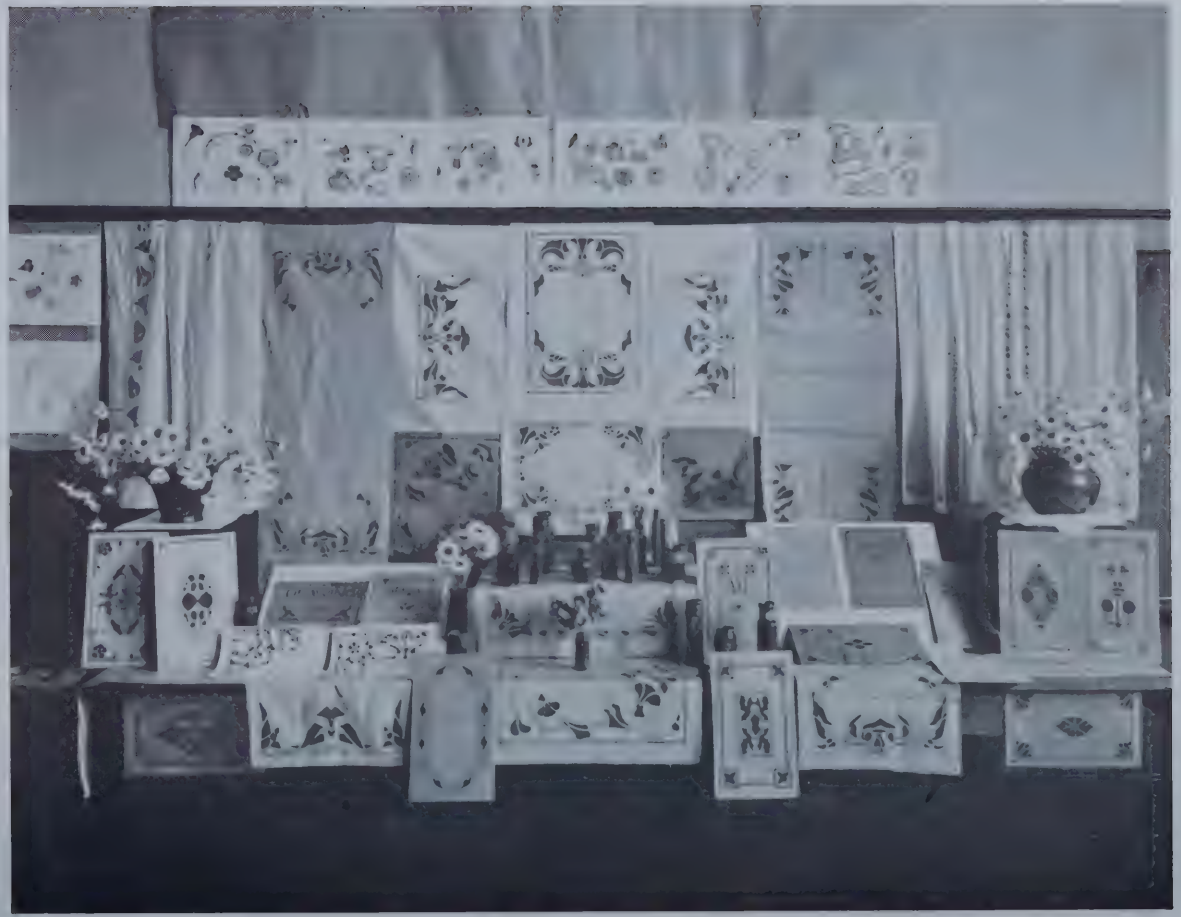
Advanced sheet-metal projects from the Manual Training class, Summer School.

Electrical laboratory, Vancouver Technical School.

Machine-shop, Vancouver Technical School.

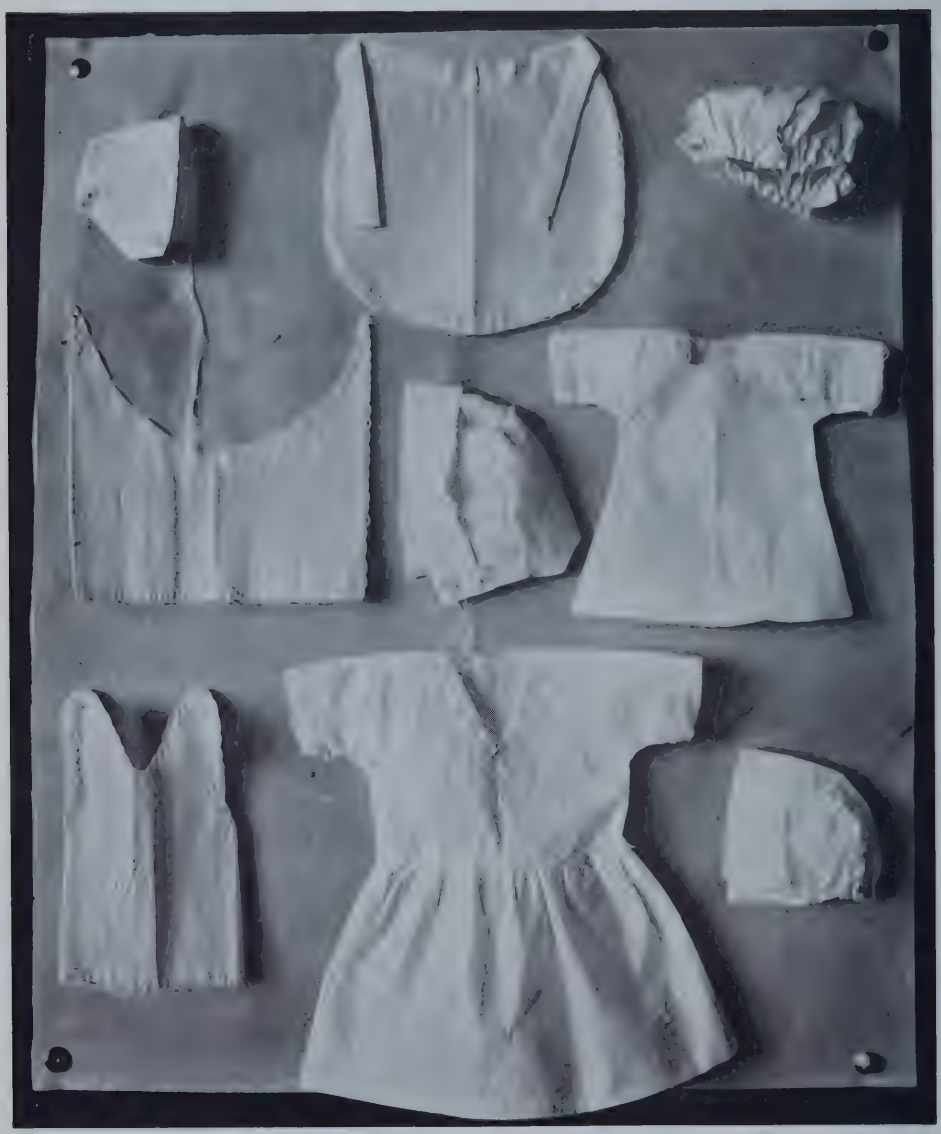
Sand-table projects from the Primary Grade class Summer School.

Hand-work from the Primary Grade class, Summer School.



Work in Applied Design from the High School Art-class, Summer School.

Rural manual-training centre, Chemainus, V.I.



Course in free pattern-cutting from the Home Economics class, Summer School.

The following expenditures for technical education were made for the year 1920–21:—

Administration	$ 4,573 66
Correspondence classes, etc.	3,511 71
Grants to night-schools, technical schools, commercial classes, etc.	97,231 24
Total	$105,316 61

Of this sum, 50 per cent. has been paid by the Dominion Government.

HOUSEHOLD SCIENCE COURSE.

In addition to the Technical Course for boys, a Household Science or Home-makers' Course for girls is organized in both Vancouver and New Westminster. The Household Science Course consists of the following subjects: English, civics, arithmetic and mensuration, algebra, chemistry, physics, physiology (including hygiene, child-welfare, and home-nursing), dietetics and cookery, needlework (garment-making and textiles), drawing, design, and household arts, vocal music and physical culture. As this course is admirably suited to those students who wish to become school-teachers, the graduates are readily accepted as students of the Normal Schools. The University authorities, however, do not accept any of the domestic-science subjects in lieu of others set at the ordinary Matriculation Examinations.

There has been a steady improvement in the work accomplished by the girls attending these classes, but lack of accommodation has heretofore handicapped the progress of the Vancouver pupils. Now that this has been remedied by the departure of the technical students to their own school, we must look for still further progress and for greater adherence to the subject-matter of the Course of Study as published by the Department of Education.

COMMERCIAL COURSES.

Commercial subjects also are included under the head of "Technical Education" and courses are conducted in ten cities in the Province. The figures appended will explain clearly the attendance at those classes and give some idea of the scope of the work:—

Place.	No. of Technical Students.	Commercial.	Home Economics.
New Westminster	68	113	16
Vancouver	287	386	66
Victoria	88	168	..
Kamloops	...	26	..
Ladysmith	...	19	..
North Vancouver	...	48	..
Nelson	...	33	..
Point Grey	...	28	..
Revelstoke	...	27	..
South Vancouver	...	68	..
Totals	443	916	82

NIGHT-SCHOOLS.

Night-schools were conducted in twenty-one cities and municipalities in the Province, with an attendance of 3,197 students. The names of these places with the number of students in attendance are as follows:—

Place.	Students.	Courses of Study.
Bevan	19	2
Chilliwack	45	6
Coal Creek	10	1
Colwood	11	1
Duncan	77	3
Chemanius	15	1
Granby Bay	221	10
Happy Valley	16	1
Carried forward	414	..

Place.	Students.	Courses of Study.
Brought forward	414	..
Merritt	28	3
Michel	17	2
Mission	76	5
Metchosin	13	1
Nanaimo	42	6
New Westminster	107	8
North Vancouver	86	6
Revelstoke	60	3
Saanich	87	3
South Vancouver	261	8
Thrums	10	1
Vancouver	1,436	29
Victoria	564	21
Total	3,201	..

The Course of Study embraces the following subjects: English, French, Spanish, journalism, book-keeping, typewriting, stenography, accounting, economics, salesmanship, draughting and machine construction, mathematics, mechanical and steam engineering, building construction, carpentry and joinery, cabinetmaking, naval architecture, navigation, electrical engineering, telegraphy, drawing and design, dressmaking, millinery, cookery, music (choral and orchestral).

In last year's report attention was called to the importance of appointing advisory committees to assist school trustees in directing night-school classes in trade subjects to the best advantage. So far, no such step has been taken by the Boards conducting technical work in this Province, and co-operative effort between manufacturers and educators is thus weakened. The system of calling in assistance from men directly connected with the industries concerned is one which is universal in character and is recognized as responsible for the best results.

Correspondence Classes in Coal-mining and Mine-surveying.

Success continues to attend the above classes, with an enrolment of 135 students. When, in addition, however, to receiving instruction by correspondence, a student enrols in a night-school and obtains the assistance of a thoroughly qualified instructor as a tutor, success is doubly assured. Experience has proven conclusively that this tutorial and correspondence method is the only satisfactory way of dealing with classes composed of men who work on the three-shift system. The Canadian Collieries (Dunsmuir), Limited, and the Canadian Western Fuel Company, Limited, have shown confidence in the correspondence courses by enrolling and paying fees for several boys in their employment. This gracious act was much appreciated by twenty-eight pupils employed by the former company and sixteen pupils from the latter. The preliminary fundamental courses for boys and young men between the ages of 15 and 23 are of primary importance, because it is not until they reach the latter age that they are permitted to sit for their first examination.

When, however, young mine-workers pursue their studies each year after leaving school, no great difficulty need be found to prevent them passing successfully the Government examinations to qualify as shotlighters, overmen, or even mine managers. It is interesting to know that at the May examinations the only first-class mine manager's certificate awarded was obtained by a student of the Correspondence School.

Lessons by Correspondence to Children who live in Isolated Parts of the Province.

These lessons are conducted in conjunction with the mining course mentioned above, and the pupils include those who live beyond reach of any school and the children of the lighthouse-keepers. For many years no attempt was made to offer opportunities to those who undertook the pioneer work of the Province; now, however, we have the satisfaction of reporting that 300 pupils are participating in the benefits presented.

I have, etc.,

JOHN KYLE,

Organizer of Technical Education.

ELEMENTARY AGRICULTURAL EDUCATION.

REPORT OF THE DIRECTOR.

VICTORIA, B.C., September 30th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I have the honour to submit the following report dealing with elementary agricultural education for the year ending September 30th, 1921:—

As this report is being prepared two months earlier than usual, and as it has not been possible to obtain information from all of the schools so soon after the summer holidays, it will be found incomplete as to schools and pupils reported as taking part in school and home gardening.

Reports to date show that school-gardening was conducted in 119 schools by 194 teachers with 6,199 pupils in public-school grades, and that school-supervised home-gardening was conducted in 56 schools by 77 teachers with 721 pupils. Other home projects of an agricultural character, such as the rearing of poultry, pigs, and calves, have been carried on to a much greater extent than in former years, especially in those districts served by District Supervisors of Agricultural Instruction.

During the year school-gardens were discontinued in a number of schools in favour of supervised home-gardens, whilst in others they were discontinued on account of unfavourable gardening conditions or on account of expense. On the other hand, new school-gardens were established, or old gardens enlarged to include additional divisions, at the following schools: Alberni, Armstrong, Chemainus, Enderby, Nanaimo, County Line, Glenwood, Langley Prairie, Murrayville, Peardonville, Ruskin, Albion, Trites, Summerland, Chu Chua, Cobble Hill, Arrow Park, One-mile Creek, Rexmount, and Williams Lake. Similarly, supervised home-gardens were reported for the first time from the following schools: Armstrong Consolidated School District, Chilliwack Central School, Vernon Central, eight schools in Chilliwack Municipality, six schools in Langley, three in Surrey, two schools in South Vancouver, also Cobble Hill, Cowichan, Fauquier, Grantham, Happy Valley, Merville, One-mile Creek, Royston, Sandwick, and Williams Lake. Notwithstanding the difficulties that the long summer vacation entails in operating school-gardens, the fact remains that where the teachers are in thorough sympathy with the work and have a complete grasp of its significance as an educational means, the gardens have been completely successful from a horticultural as well as from an educational standpoint. On account of the very late season the gardens were late in getting started, but in most cases the work was well managed and the results quite satisfactory.

Horticultural success in school-gardening is always to be desired and should be aimed at, but educational values are vastly more important. To estimate the value of the school-garden in terms of the amount of produce raised would be foolishness indeed, and yet some people do this very thing. Others regard it as a means of training boys and girls in the principles and practice of gardening—in other words, teaching them how to make and care for gardens. Useful as such a training might be, that is a mere incident in connection with school-gardening. Its greatest values have to do with the development of personal ability and character. It provides for constructive activity with a directive purpose. It encourages independence in thinking and in doing. It develops initiative and resourcefulness. Its interests are stimulating and wholesome. It provides a daily challenge to new activity and new conquest. It teaches the thoughtless boy to be mindful of his fellows' interests whilst in the pursuit of his own. It engenders the spirit of fairness and of co-operation for the common good. It fosters a pride in one's ability to control and develop things and forces in his own wonderful environment of nature. It teaches respect for labour and engenders habits of thrift and economy. It tends to make a boy stronger in body, keener in intellect, self-reliant, and courageous. It makes boys and girls more sensitive to the beauties and harmonies of nature and more reverent in their attitude towards the sacredness of life itself.

As an educational instrument, the skilful teacher will use it continuously as a means to giving concreteness and reality to many school lessons and class exercises. The experiences arising out of school-gardening are so numerous and so varied that practically every subject on the curriculum will find a vitalizing and stimulating relationship in them. Garden plots, garden observations, garden activities, and even garden products provide the best possible occasion and much suitable material for effective work in arithmetc, reading, story-writing, drawing and colour work, geography and other subjects, and for any teacher to say that the school-garden hinders or obstructs his teaching in any of these branches is at once an admission of ignorance on his part of the first principles of the science of education. Surely school-gardening would be well worth while if for no other reason than that just mentioned—its vitalizing effects upon the teaching of the older subjects of the curriculum. The great need of the hour is a body of teachers not only skilful in the management of the school-garden, but also—and this is of greater importance—capable of using it to the best advantage from an educational standpoint.

HOME PROJECTS IN AGRICULTURE.

On account of limited area and bad gardening conditions it is not practicable to establish school-gardens in a great many schools in British Columbia, and for this reason school-supervised home-gardening and the home project in agriculture are being urged as supplementary to or as an alternative with school-gardening. A new circular dealing with this branch of the work was issued during the year and a fair commencement made. Whilst lacking some of the educational advantages of the school-garden, such as regular and direct class-instruction under the teacher and the constant stimulus of competition and comparison of results, it also possesses some outstanding advantages. The home project in gardening and agriculture tends to associate home activities with school interest, to the obvious advantage of both. The project method of study may seem new in school-work, but it is as old as human experience. It is the method by which all progress towards individual as well as social betterment has been made. It consists mainly in fixing upon certain worth-while things to be investigated or to be done, and then in a purposeful and orderly way to work—mentally and manually—towards the realization or accomplishment of those things. It is the embodiment of educational purpose, of interest, and of achievement. It harmonizes the interests of the two greatest and most democratic organizations of all time—the home and the school. The project method of study is as applicable to other subjects in the school curriculum as it is to agricultural subjects. It is really a great working principle in all human endeavour, including education. Every teacher could and should make use of it as a matter of good method in teaching. The agricultural home project has great possibilities in cities as well as in rural communities, and if properly conducted would do much to offset the vicious and growing tendency, so apparent amongst boys and girls of public- and high-school age, to seek mere pleasurable entertainment and gratification rather than personal improvement and service.

AGRICULTURAL CLUBS.

It has been found advantageous to bring together in occasional conferences boys and girls having a common interest in certain lines of agricultural and home-project work. This has been accomplished best by having them organized in clubs, in which case they appoint their own officers, draw up their own regulations, and conduct their own meetings. Such organization affords valuable practice in the rules of procedure in organized bodies, and also develops self-control and habits of correct expression in public speaking. Although these clubs may give special attention to some particular out-of-school interest or enterprise, such as gardening or the raising of live stock, their aim is more broadly educational. Varied programmes are carried out especially during the winter months with a view to the personal improvement of the members and the maintenance of interest in school-work generally. The District Supervisors of Agricultural Instruction are mainly concerned with these organizations and are finding them of considerable value in their respective districts.

SCHOOL FAIRS.

School fairs are being held in different parts of the Province this year, but it is not possible at this time to give the exact number. It has been the custom in British Columbia to hold the

The Boys' and Girls' Jersey Calf Club. Some of the winners at Chilliwack School Fair, 1921.

Dudley Durrance, West Saanich, winner in the vegetable-seed-growing contest, 1921.

The Tanner Bros., Junior, Keating, B.C., successful competitors in the vegetable-seed-growing contest, 1921.

school fair in conjunction with the general agricultural fair, and in most cases this has been found satisfactory. Practically every agricultural fair in British Columbia has its children's or schools' department, and in not a few cases the schools' section provides the chief attraction of the fair. Occasionally in districts where agricultural fairs are not held the teachers organize school fairs as separate school functions. The school fair serves a useful purpose, educationally and socially. It, at least once in the year, serves to focus the attention of the parents and of the general public upon the nature and quality of the work being accomplished in the schools. Small grants have been made towards the prize-list in connection with these school fairs and further consideration is now being given to the question with a view to establishing these grants on a percentage basis. The largest and most successful school fairs are being held in the districts served by District Supervisors, and the best results are obtained in those districts where the teachers stand together in support of the undertaking. The School Boards in these districts where school fairs are held co-operate with the agricultural associations and teachers' associations in providing prizes. In some cases private individuals have given very generous support by offering special prizes.

The competitions are of two kinds, school or class contests and individual contests. The former include school-garden exhibits, manual-training exhibits, domestic science, writing, drawing, and primary grade hand-work, and the latter such exhibits as chickens, rabbits, calves, and pigs, which usually come under club management, and such individual projects as may be included under sewing, cooking, wood-working, and home-garden exhibits.

This year the Jersey Breeders' Association has given most valuable assistance in the organization of Boys' and Girls' Jersey Calf Clubs. Three strong clubs were organized—one at Chilliwack, one at Salmon Arm, and one at Armstrong—and three clubs of eight members each in the Comox District. In arranging and financing the purchase of pure-bred Jersey calves for the different club members, invaluable assistance has been rendered by the managers of local banks at these points—Mr. L. W. Smith, of the Merchants' Bank at Chilliwack; Mr. S. K. Campbell, of the Bank of Commerce at Salmon Arm; Mr. W. Smith, of the Bank of Hamilton; and Mr. C. B. Winter, of the Bank of Montreal at Armstrong. In a more general way the Canadian Bankers' Association has for several years been offering special prizes at most of the fall fairs for different classes of live stock owned and raised by boys and girls.

The chief difficulty experienced this year was that of securing a sufficient number of pure-bred calves to meet the demand. The results this year have been so satisfactory that the difficulty referred to will probably be even greater next year. This year it was found necessary, after securing all the available animals from local breeders, to import a car-load from the eastern townships of Quebec. So far not a single case has been reported where Calf Club members have fallen down on their project of calf-raising. On the other hand, the boys and girls have not infrequently won honours in open competition with the best stockmen exhibiting at the fall fairs. These clubs were all officially registered under the Department of Agriculture.

In some cases the school fair includes a series of athletic contests. At the Surrey Fair this year a programme of sports was splendidly carried out by a committee of energetic citizens. Every one of the numerous athletic events was keenly contested and the entire afternoon was spent in a very interesting manner. Councillor Joe Brown did much to assist the committee in promoting interschool contests by offering two handsome silver cups—one for the graded school winning the greatest number of points in the sports contests and the other for the ungraded school winning the most points. At this fair the midway faker was conspicuous by his absence, yet no one was heard to express any regret, nor did any one seem to miss this very questionable form of attraction.

School sports also formed an important part of the programme at the Langley Fair, which was held at Milner.

JUNIOR STOCK-JUDGING COMPETITIONS.

As a further development of this work and with a view to encouraging the careful study of farm animals, arrangements were made with the executives of the three largest fairs—Vancouver, New Westminster, and Victoria—for the holding of competitions in the judging of farm animals. Very generous prizes were offered and the response was most gratifying. In addition to the regular open contests in stock-judging for adults, and for boys and girls under 21 years of age, competitions amongst teams of three—boys or girls under 18 years of age—were arranged at

Vancouver and New Westminster. Six teams entered the competition at the Vancouver Fair, the winners being as follows:—

First prize ($100)—Won by a team of boys from Kamloops, coached by George Hay, B.S.A., District Agriculturist.

Second prize ($60)—Won by a team of girls from Chilliwack, coached by J. C. Readey, B.S.A., District Supervisor of Agricultural Instruction.

Third prize ($40)—Won by a team of boys from Comox, coached by S. H. Hopkins, B.S.A., District Supervisor of Agricultural Instruction.

Fourth prize ($30)—Won by a team of boys from New Westminster, coached by A. M. McDermott, B.S.A., District Supervisor of Agricultural Instruction.

Fifth prize ($20)—Won by a team composed of two boys and one girl from Victoria, coached by H. E. Hallwright, B.S.A., District Supervisor of Agricultural Instruction.

In the individual stock-judging competition at the Vancouver Fair, in which some twenty-five contestants took part, the awards were as follows: First, Harry Drake, Kamloops; second, Thos. Hopkins, Courtenay; third, Frank Frolek, Kamloops; fourth, Jean Thompson, Chilliwack; fifth, James Wright, Kamloops.

At New Westminster the competition was even more keen than at Vancouver, no less than eleven teams entering the contest and forty-seven boys and girls in the contest for individual judging for those under 21 years. The winners were as follows:—

(1.) For boys or girls under 21 years of age making the highest score in the judging of heavy horses, dairy cattle, and beef cattle: First, Lorna Ramsay, Victoria; second, Jean Thompson, Chilliwack; third, George Hodgson, New Westminster; fourth, Ernest Brooke, Salmon Arm.

(2.) For teams of three—boys or girls under 18 years of age—winning the highest number of points in the judging of the same three classes of live stock, 50 points being allowed for correct placing of animals and 50 points for written reasons. The first prize, which consisted of a challenge cup presented by the British Columbia Stock-breeders' Association and a gold medal to each member of the team presented by the Royal Industrial and Agricultural Society of British Columbia, was won by the Kamloops team, composed of Harry Drake, Frank Frolek, and James Wright, coached by George Hay, B.S.A., District Agriculturist. The second prize, a silver medal to each member of the team, was won by the Armstrong team, composed of Edward Patten, Dudley Pritchard, and Hector Ford, coached by J. B. Munro, B.S.A., District Supervisor of Agricultural Instruction. The third prize, a bronze medal to each member of the team, was won by the Chilliwack girls' team, composed of Bessie Macfarlane, Jean Thompson, and Constance Barton, coached by J. C. Readey, B.S.A., District Supervisor of Agricultural Instruction, Chilliwack.

A special cash prize of $30, donated by the British Columbia Dairymen's Association, for the team making the highest score in the judging of dairy cattle was won by the Comox team, composed of Tom Hopkins, Harry McQuillan, and Clive Davis, coached by S. H. Hopkins, B.S.A., District Supervisor of Agricultural Instruction at Courtenay.

A special prize of $12 for first place and $8 for second, donated by A. M. Paterson, M.L.A., for the highest score in the judging of heavy horses was awarded as follows: First, Jack Berry, Langley; second, Violet Grant, Enderby.

A special prize of $10, donated by Dean Clement, of the Provincial College of Agriculture, for the highest score made in the judging of beef cattle went to Harry Drake, Kamloops.

At the Victoria Fair the contests were altogether for individuals, with a sweepstakes contest open to boys or girls who had won first or second place in any previous judging contest in the Province. The results were as follows:—

Boys or girls under 21 years of age (cash prizes): First, Herbert Warren, Victoria: second, Alfred Clark, Victoria; third, Harry Doyle, New Westminster; fourth, Cecil Dick, Victoria.

Boys or girls under 18 years of age (cash prizes): First, Harry Drake, Kamloops; second, Lorna Ramsay, Victoria; third, George Hodgson, New Westminster; fourth, Alfred Clark, Victoria.

Sweepstakes for boys or girls under 18 years of age: First, gold medal and $15, Harry Drake, Kamloops; second, silver medal and $10, Jack Berry, Langley Prairie; third, bronze medal and $5, James Wright, Kamloops.

As the competitors came from different districts in the Province and as their selection as members of their respective teams is determined by their proficiency in this particular branch

of their agricultural studies—most of the competitors being members of High School Agricultural classes in the Province—these contests in stock-judging serve to stimulate interest during the year in agricultural studies. The exhibition executives of these three large fairs are deserving of praise for the very generous and enthusiastic support given to these stock-judging contests for young people engaged in agricultural studies. The executive of the Provincial Fair at New Westminster could not have done more than they did to make the stock-judging contests successful, and also to give the youthful contestants a thoroughly good time during their visit to this splendid exhibition. Not only did they pay the transportation of the contesting teams to the fair, which they had promised to do, but they also granted free admission to the fair, provided meals and lodging during their stay, and finished by tendering a complimentary banquet to the teams and their coaches and to many others who had been actively interested in the competitions. Referring to the banquet and to the junior stock-judging competitions, the *British Columbian*, of New Westminster, in an excellent editorial in the issue of September 17th, made the following statement:—

"There have been banquets and banquets at the exhibition, but the gathering of young men and maidens who took part in the junior stock-judging competition with the officials of the fair, the University men intimately connected with agriculture, and the District Agricultural Supervisors from various sections of the Province, was one of those really stimulating and inspiring affairs which will have an influence far afield. The junior stock-judging competition was one of the successes of the exhibition and, as President Nelson expressed it, one of the most practical features."

One of the interesting things about these contests was that country-bred and city-bred boys and girls were brought together as competitors on what might appear to be rather unequal terms. It was shown, however, that although the highest score was awarded to a team composed of the sons of prominent stockmen and coached by a man of recognized ability as a stock judge, some of the honours were won by boys and girls in the city who are students in High School Agricultural classes. The showing made by agricultural students in the Victoria and New Westminster High Schools would help to substantiate my own contention that agricultural science can be made a real success as a high-school subject in any high school in British Columbia, whether rural or urban.

In reporting the results of the junior stock-judging competition held at the Vancouver Fair, the Vancouver *Province*, under date of August 20th, made the following very complimentary statement with reference to agricultural instruction in British Columbia and the ability displayed by the young competitors in stock-judging:—

"There has been no better indication recently of the value of agricultural fairs nor no more hopeful sign for the agricultural future of the Province than the scene in the pavilion on Friday of six district teams of boys and girls under 18 years of age in a stock-judging competition. . . . The young agriculturists, all students of British Columbia high and public schools, judged horses, sheep, cattle, and swine. The written reports of the entrants in the competition showed a versatile knowledge and a familiarity with what is required in pure-bred animals that augurs well for the improvement of live stock in the Province."

Referring to the value of high-school instruction as carried on in British Columbia, the report in the *Province* continues:—

"That this teaching is invaluable to the agricultural development of the Province is the firm conviction of every one who has had any contact with the work. The children's practical as well as theoretical instruction and how well they have progressed was strikingly illustrated at the exhibition yesterday morning when confronted with several departments of stock and widely separated types of each breed they gave judgments such as might be expected only of those who have spent many years in the business. One of the teams, that from Chilliwack, was entirely composed of girls. The students were selected by the elimination process in each district. It was a decidedly interesting sight in the pavilion to see dainty young school-misses stepping around the animals with appreciative and calculating eye picking out their weak points almost as readily as a veteran stockman."

AGRICULTURE IN HIGH SCHOOLS.

The regular Two-year Course in Agriculture is now being taught in fourteen high schools to approximately 400 students, fully half of whom are girls. That girls can profit by these courses

as well as boys and can make as good a showing is being demonstrated daily in these high schools. The very creditable standing taken by the girls who entered the stock-judging contests came as a distinct surprise to many—perhaps all but their instructors. When it comes to teaching elementary agriculture and nature-study in our public schools, these young women will certainly be on familiar ground, and will not betray the weakness and almost helplessness in the teaching of this subject now commonly met with amongst teachers who have had no such preparatory training in their Public and High School Courses. Every teacher should have a good training in science subjects in the high school, and where possible in agricultural science as well. Very commendable alterations have been made in the Course of Study for High Schools in recent years which permit of a more thorough grounding in the sciences, for intending teachers particularly, but a great many boys and girls on entering high school with a view to preparing themselves to teach are not made aware of the benefits to be derived from a study of the science subjects as an important part of a teacher's training.

In the report of a committee composed of eighteen of the leading educationists in England, appointed by the Prime Minister to investigate the teaching of science under the educational system of Great Britain, the following conclusions bearing on this question are worth considering: "It is not easy to exaggerate the importance of some scientific knowledge for all teachers, for it enables them to link up their daily lessons with the facts with which all children, in town and country alike, are in natural and continual contact. It is extremely desirable that there should be a much larger number of teachers in elementary schools qualified to give instruction in science and that all possible steps should be taken to increase the supply."

As suggested by this committee, one of the great values to a teacher in having a good science training rests in the fact that it enables him to interpret to his pupils their complex natural environment and to make more meaningful to them their daily observations and experiences.

Agriculture as taught in the high schools of this Province is closely linked up with natural and experimental science, and can only be at its best educationally when taught in conjunction with the sciences. It provides a wealth of opportunity for applying the principles of physics, chemistry, and biology, and might almost be defined as science applied to the soil and its products as seen in plant and animal life. As taught in our high schools it is an educational rather than a vocational subject. Its vocational aspects must be regarded as secondary or incidental. The courses are not conducted with a view to producing farmers, but rather for the purpose of helping to develop responsible and resourceful citizens having some special knowledge of such fundamental things as the scientific production of the people's food and the economics of rural life and industry. Vocational courses in agriculture emphasize agriculture methods in the daily practice of farming, and can only be taught successfully in a well-equipped farm school. The Province of Alberta has about half a dozen of these agricultural schools and there are four or five in Eastern Canada. These are truly vocational schools where boys and girls may come to receive further instruction and direct practical training in the latest methods of farming and of home management. As would be expected in such vocational schools of agriculture and home economics, most of the time is spent on purely agricultural subjects, whilst the remainder is devoted to such subjects as English, history and civics, and science. In the fourteen high schools in this Province where agricultural courses are offered the class time allowed so far is approximately three hours per week. If this allotment of time could be doubled it would certainly help greatly in making the subject the success which its importance justifies, but even with the very limited time allowed the courses are improving and are steadily gaining in popularity.

NEW APPOINTMENTS.

In July last two new appointments were made. Mr. Wm. H. Grant, B.S.A., a graduate of the Ontario Agricultural College and a teacher of experience, was appointed District Supervisor of Agricultural Instruction for Salmon Arm City and Municipality. Mr. Grant has made a good beginning in his work in the Salmon Arm District and we are fortunate in being able to secure him for this position.

Mr. Tom H. Jones, B.S.A., also a graduate of the Ontario Agricultural College and a specialist in horticulture, has been appointed District Supervisor for the Penticton and Summerland District. As fruit-growing is the leading industry in this part of the Province, Mr. Jones will be able to put his technical knowledge of horticulture to good use in conjunction with his teaching in the district.

Winners in the Chilliwack Jersey Calf Club, 1921.

A few of the members of the Armstrong Jersey Calf Club.

Ralph Mitchell, Keating, B.C., one of the prize-winners in seed-growing.

A school-boy and some of the produce from his garden which he contributed to the Hospital, Vernon, B.C.

Very promising high-school classes in agriculture have already been formed in the high schools in these districts and a lively interest in the new work is being manifested generally.

NOTES FROM THE REPORTS OF DISTRICT SUPERVISORS OF AGRICULTURAL INSTRUCTION.

From J. C. Readey, B.S.A., Chilliwack District:—

"Number of students enrolled in Advanced Junior Grade Agriculture, 18; and in Matriculation Agriculture, 5. In general science thirty-two pupils are enrolled. All students who wrote advanced agriculture last June were successful in passing.

"This year home projects were added to the work required of the students in agriculture, with very satisfactory results. The parents as well as the students themselves have been deeply interested in the work.

"Supervision-work includes fifteen public schools in which classes are conducted in twenty-nine class-rooms. The garden-work and the nature-study teaching was better than in any preceding year. No less than 130 pupils availed themselves of the offer of the choice of five kinds of seed for home-gardening. These gardens were planned as supplementary to the family garden. At the School Fair seventy-three exhibits were made, special prizes being offered by the Chilliwack Parent-Teacher Association. The School Fair continues to grow. This year there was a total of 731 entries, covering many branches of school-work, with a prize-list of $580. The exhibit of home-garden produce and the live-stock exhibits of Jersey calves, Yorkshire pigs, grade bacon pigs, and poultry made substantial and attractive addition this year to the features of previous fairs.

"The organization of live-stock clubs in this district has been very successful and promises well. In co-operation with the Provincial Department of Agriculture, the Jersey Breeders' Association, the Dominion Poultry Association, and the Merchants' Bank of Canada, I have been able to organize the following clubs: A Poultry Club of 120 members; a Jersey Calf Club of 23; a Yorkshire Pig Club of 15; and a Bacon Pig Club of 15, the latter having 54 animals.

"In conjunction with the Department of Agriculture, an office has been opened in the Court-house in connection with the work of farm cost accounting. The field-work entailed by this, together with the club-work, helps to bring me into intimate and practical touch with the agricultural practice of the community, which greatly aids in the work of instruction in agriculture in the schools and especially in the High School. This work will make available most valuable first-hand information in the matter of production costs.

"The schools of this district were represented at the Provincial Fair at New Westminster in the Pig Club and Jersey calf contests and by a district school-garden exhibit. A stock-judging team composed of three girls—members of last year's High School class—entered the competitions in stock-judging both at Vancouver and New Westminster, winning second place at the former fair and third place at the latter, with eleven teams competing. A very creditable showing has been made by the district in all contests this year."

From E. L. Small, B.S.A., Surrey Municipality:—

"In connection with the High School work this year the following projects were developed: (1) Planning and operating of a home vegetable-garden; (2) variety and yield test for potatoes; (3) construction and care of hotbeds; (4) home improvement by means of flowers, shrubs, and lawns; (5) tests and records for dairy herds. The High School classes taught are as follows: First-year Agriculture, 12 students; Second-year Agriculture, 12; General Science, 17. The eighteen public schools of the municipality were visited regularly every two weeks. Aid was given by teaching type lessons, providing current publications, bulletins, and by the use of lantern-slides. Fourteen of the schools conducted successful school-gardens, with experimental work for the advanced classes. Home projects in the growing of seeds, potatoes, corn, home vegetable-gardens, and poultry-raising were organized in each school, and the produce was shown at the Surrey School Fair, and later at the Provincial Exhibition at New Westminster.

"I was pleased to be able to aid in the formation of the Surrey Parent-Teachers' Association, which did excellent work in establishing warm lunches for school-children. A local Teachers' Association and reading circle has also been formed for the coming term.

"I wish to thank the Department of Education for the educational course which I was allowed to attend at the Northern Normal and Industrial School Aberdeen, S.D., during the summer months. I was particularly interested and benefited by the courses in rural leadership, rural sociology, vitalized agriculture, and by special educational lectures delivered by prominent

lecturers in the United States. Such a course must necessarily be of great help to one engaged in rural educational work."

From J. M. Shales, B.A., B.S.A., Langley Municipality:—

The work here has made favourable progress during the year. Eight students are taking the Advanced Course in Agriculture and thirteen the First-year Course. This year our demonstration plots gave splendid proof of the value of the drainage system planned by the class last fall and installed during the winter. The experiments carried out by the pupils have given some very practical and definite results of value to the district, particularly those concerned with certain insect-controls and chemical fertilizers. The fifteen public schools of the municipality were visited once in two weeks for the purpose of assisting the teachers in nature-study and school-gardening. Over 300 pupils were furnished with garden seeds and other materials for carrying on home projects in agriculture. The results of these as well as the products of the school-garden were exhibited at the School Fair at Milner, making up the largest exhibition ever held here. A district school-garden exhibit was staged at the Provincial Exhibition and won first prize. A stock-judging team was trained for the competitions held at New Westminster and Victoria Fairs."

From A. M. McDermott, B.S.A., New Westminster:—

"During the year work carried on included: (1) Instruction in agriculture for High School classes, 29 enrolled; (2) instruction for night classes, 19 enrolled; (3) special class in agriculture for young men attending the Technical School, 14 enrolled; (4) assistance in the teaching of physics and chemistry in the Technical School; (5) supervision of agricultural instruction in the city schools.

"Upwards of 3 acres of land are at our disposal for practical work. This was surveyed in the early spring and planned to give practice in the best methods of soil-treatment, crop rotation and management, seed production, and landscape-gardening. Demonstration-work included milk-testing, incubation of eggs and care of poultry to early maturity, treatment and selecting of seed for ordinary field and root crops, including potatoes for certified seed, also experiments in the growing of grains, grasses, sugar-beets, and garden vegetables.

"During January, February, and March evening classes were held, when short courses were given in the following branches: Soils, dairying and dairy products, poultry and live stock. Classes were held from 7.30 to 9.30 on Tuesday and Thursday evenings, with an average of nineteen in actual attendance. Grateful appreciation is hereby expressed to Professor Lloyd, of the University of British Columbia; J. Renton, Head Nurseryman, Essondale; Dr. Chester, Provincial Veterinarian at New Westminster; and C. Tice, B.S.A., Provincial Department of Agriculture, for valuable assistance rendered during the course.

"Live-stock-judging teams were trained for competition at the exhibitions at Vancouver, New Westminster, and Victoria. Both boys and girls took part and did very creditable work, which seemed a fitting response to the efforts of the committees in charge of this new feature on the programmes of the various exhibitions.

"During the year an earnest endeavour was made to fill a worthy place in the great work of teaching, to enhance the enjoyment of life on the part of the growing youth, and by leading young men and women through educational agriculture to properly interpret the 'natural' world and as grown citizens to exert a corrective influence on 'unnatural' tendencies."

From J. B. Munro, B.S.A., Armstrong and Enderby:—

"All the first-and second-year students in the High School completed their Courses in General Science and Preliminary Agriculture in June—fifteen students in the former class and ten in the latter. This term eight matriculation students and ten in the second year are pursuing their studies in agriculture.

"A School Fair was held last month in which both teachers and pupils took a keen interest. Every school pupil had at least one exhibit entered. The fair was well attended by parents and others interested. Frequent stock-judging demonstrations were held at the leading ranches for the benefit of the students in the Agricultural class, from which a stock-judging team composed of three girls was selected for the competition at the New Westminster Fair. I was ably assisted in this work by Dr. C. M. Henderson; Mr. Charles Hardy, manager of the Stepney Ranch; and Mr. George Smedley, a poultry judge of Enderby.

"*Armstrong District.*—All the students of the Armstrong High School have chosen agriculture in their second and third years, general science having been taken during the first year,

and very keen interest in the work is being displayed. Eight matriculation and nineteen second-year students are enrolled in the classes.

"In addition to the class-room, garden, and laboratory studies, frequent visits have been made to greenhouses, creamery, dairy-farms, brickyard, market-gardens, ranches, and other places where practical first-hand information can be secured through direct observation. The study of live stock has been the basis of our work during the spring and summer, teams of horses, herds of cattle, and flocks of sheep being secured for nearly every lesson in the judging and handling of animals. Many ranchers and townsmen assisted in the work.

"Two live-stock clubs formed this year are now in existence among pupils of high and public schools. The Berkshire Pig Club has sixteen members, eleven of whom showed pairs of pigs at the recent Northern Okanagan Exhibition. Twelve boys and girls are members of the Jersey Calf Club, and ten of these showed their animals at the same fair at Armstrong. In open competition with animals owned and shown by adults, some of these calves were winners.

"A team of boys competed at the Vancouver Fair and also one at the New Westminster Fair, where they succeeded in winning second place. The stock-judging demonstrations and competitions have had a splendid effect on students and adults in this district."

From H. E. Hallwright, B.S.A., Victoria District:—

"The value of agriculture as a subject of general education, even when carried on in an urban environment, is coming to be recognized more and more. The peculiar character of the subject itself, its intimate and essential relationship to the every-day experience, even of boys and girls living in an urban or suburban environment, seems to justify its having a place in city high schools, and city people are coming more and more to recognize it as a balancing and co-ordinating factor in any course of instruction. In some rural districts, on the other hand, there is a tendency to withhold from the children that training which is so essential to intelligent farm practice to-day. This is owing to an idea that so-called 'white collar' jobs carry with them more distinction and also greater remuneration than the tilling of the soil or the raising of live stock, however 'honourable' such occupations might be. Agricultural instruction in Saanich—especially that part which had to do with school-gardening—has, for several reasons, partly economic, suffered a reverse, and the chief work carried on there during the season consisted of home-project work in seed production. The boys and girls of Saanich have responded to this home-project work with enthusiasm. Systematic instruction in the method of raising seed and in arranging of exhibits for the Saanichton Fair has been carried out. Prizes consisting of gold, silver, and bronze medals for first, second, and third prizes and a garden-cultivator for fourth have been provided for the winners in the seed-growing contest, and a good exhibit is assured.

"Special attention has been given to the work under way in the Victoria High School. The stimulus towards the study of live stock resulting from the junior competitions in stock-judging instituted by the executives of the Vancouver, New Westminster, and Victoria Fairs has been taken advantage of, and although facilities for demonstration and practice work are not all that could be desired in the vicinity of Victoria, yet the students in agriculture, mostly drawn from the Matriculation class, distinguished themselves beyond all expectation.

"The present Matriculation class in Agriculture numbers twelve students—six boys and six girls—and may yet have a few more added to the number. The Junior class is the largest we have ever had since the work was started, no less than thirty-three students—fourteen boys and nineteen girls—having enrolled. This is the limit of our present accommodation and a few of the late-comers had to be denied admission to the class. The predominance of girls taking the junior year may be traced to the recognized advantages to be derived from this course by those who are aiming to become public-school teachers, as most of the girls taking the course are looking forward to entering the teaching profession.

"Plans are under way for conducting evening classes in Agriculture during the winter months. These classes, which have been very successful in former years, are again being organized for the benefit of young men and women who are unable to attend high school, but who are desirous of obtaining technical instruction in certain branches of agriculture."

From J. E. Britton, B.S.A., Kelowna District:—

"During the school-year from September, 1920, to July, 1921, the work in Kelowna High School consisted of teaching and general instruction-work in agriculture for a class of eighteen—twelve boys and six girls. In addition to this, the General Science Course as outlined was taught with the Preliminary class, and the Botany Course with the Advanced Junior class.

"Commencing with the school term, September, 1921, two classes were enrolled for agriculture. In the Advanced Junior class there are twenty-one, consisting of ten boys and eleven girls. The Senior class has ten boys and four girls completing the work in agriculture for matriculation. To assist the teaching staff, the Course in General Science is again being taught by the Supervisor, with thirteen boys and nine girls. Assistance is also given in the Botany Course, particularly in the laboratory work for the two classes taking the subject.

"By arrangement with the Department of Agriculture, the Supervisor devotes half of his time to work in the district as Agricultural Representative for that Department. This leaves the first three days of the week for strictly school-work. There are many advantages in this arrangement, but often one branch of the work claims more attention than its allotted half-time allows, and while one helps the other in many ways, it is not always easy to turn from the planning and thought in one department to a consideration of the other."

From V. B. Robinson, B.S.A., Vernon District:—

"Under the co-operative scheme existing between the Department of Education and the Department of Agriculture, I devote half of my time to the interest of each department.

"The High School work has made satisfactory progress. There is an enrolment of twenty-one in the first year and six in the second. The idea that a Course in Agriculture need not necessarily be vocational, and that it is as valuable, from a citizenship point of view, to the boy or girl not strictly connected with the farm, but who lives in a rural district, as it is to one living on the farm, is commencing to be appreciated. An intelligent understanding and appreciation of the work will tend to make it more popular.

"The instruction commenced last year with the teachers of the public school will be continued. Time cannot be spared to give class-room instruction to each of the upper grades in the public schools, and this method is taken to reach the maximum number of pupils. Six teachers undertook school-gardening this past season and the same number of gardens will be conducted the coming year.

"My duties as Agricultural Representative have been chiefly concerned with a study of Okanagan soil conditions and problems. Last winter I outlined the necessary procedure for establishing a number of demonstration plots to show the uses and values of certain cover-crops and various fertilizer treatments. In the spring these were established in several orchards in the district. During the coming winter I expect to devote the major portion of my time to collecting data from representative growers regarding orchard yields and methods of soil management.

"This practical work has been of immense value to me in my teaching, permitting me to give a local application to the most of my class-room work. I find it, however, very difficult to maintain a proper balance between these two united and yet dissimilar fields of activity, as there is sufficient work in either to engage one's entire time."

From W. M. Fleming, B.S.A., Duncan District:—

"During the first term ending June 20th, 1921, I had nine students in Junior Agriculture, three in Senior, eight in First-year General Science, and nineteen in Botany. All of the students who took general science in their first year are taking agriculture this year. The classes at the present time are as follows: Junior Agriculture, 8 students; Senior Agriculture, 5 students; and General Science, 28 students.

"This year the following schools under my supervision had school-gardens: Duncan Central (five rooms), Cowichan Station, and Glenora. Seven pupils at Cowichan also had supervised home-gardens. Very creditable progress was made at Glenora this year. This school won the first prize at the Fall Fair, seven schools competing, for best exhibit from gardens planted at the school.

"Plans are being prepared for improvement of the school-grounds at Chemainus, and it is hoped that some progress will be made before the end of the year.

"As in 1920, the Education Division of the Fall Fair was specially emphasized in my work. This section, which this year had 752 entries, now attracts the attention of many visitors and is a feature of the exhibition. A Pig Club having nine members is carrying on successfully.

"Extension classes were held at Somenos one night per week from December 1st to March 15th, with an average attendance of seventeen.

"My work at Duncan is divided, half-time being given to teaching and supervision and half to Agricultural Representative work. An office has been established in the Agricultural Hall.

Section of flower-border in the High School experimental grounds at Vernon.

Junior stock-judging competition at Vancouver Fair, 1921.

Armstrong and Spallumcheen Consolidated School, 1921.

A record has been kept of visitors to the office, and an average of 170 persons per month visits this office for information and advice.

"During the past year satisfactory progress has been made and prospects are bright for continued success in all lines of work."

From S. H. Hopkins, B.S.A., Comox District:—

"My work in connection with the school has been chiefly concerned with the organizing and supervising of home-project work in home-gardening and competitions in the raising of chickens, pigs, and calves. These have been very successful. Five schools entered the competitions in home-gardening, each holding its own School Fair. These schools also sent exhibits to the Fall Fair at Courtenay.

"In the chicken-raising competitions there were seventy-five competitors, whilst in calf-raising there were twenty-four and in pig-raising ten. The judging in these competitions, with the exception of the chickens, was done by myself. The exhibits in nearly all cases were of very high grade and keen interest was shown by the children taking part in them. As poultry-raising is a phase of farming somewhat neglected in this district, these competitions are very important, as they help to arouse a keener interest in the industry and at the same time serve to distribute good strains of poultry over the farms of the district. As yet no class-work in general science and agriculture has been started in the Courtenay High School, as the School Board has not yet provided the necessary equipment for teaching these subjects. I hope to have these classes under way, however, within a few weeks."

As Mr. Grant, District Supervisor of Agricultural Instruction in the Salmon Arm District, and Mr. Jones in the Penticton-Summerland District have scarcely more than begun their work, no report has been received. Everything seems to indicate, however, that an excellent beginning has been made in each of these districts.

I have, etc.,

J. W. GIBSON,

Director of Elementary Agricultural Education.

SUMMER SCHOOL FOR TEACHERS.

VICTORIA, B.C., September 30th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit herewith a report on the summer school for teachers held in Victoria from July 4th to August 5th, 1921.

As in former years, most of the classes were held in the Victoria High School, where every facility for good work is provided for all classes, excepting those in Manual Training and Domestic Science. Accommodation was provided for the Domestic Science classes at the Central School, whilst the Manual Training courses were conducted in the Vancouver Technical School, chiefly on account of the fact that the great majority of students taking these courses, and the instructors as well, live in or near Vancouver.

The Provincial University summer school was in session from July 4th to August 13th and attracted a somewhat larger number of student teachers than last year, the total enrolment being 134. This year, as last, the Department of Education paid the transportation of teachers taking the courses in Vancouver as well as in Victoria.

The enrolment by classes in the Provincial Department of Education summer school was as follows:—

Rural Science	35
Primary Grade	60
Art	35
Manual Training	25
Home Economics	17
Music	15
Children's Literature and School Libraries	20
Total	207

As will be seen from the enrolment, the largest class of all was that established for Primary grade teachers. This course proved to be highly successful in every way, due chiefly to the very excellent instruction given. Professor Fred E. Coombs, M.A., who holds a high reputation in educational circles in the East for his outstanding ability as Professor of Principles and Methods in Primary Education in the Ontario College of Education, took full charge of the first part of the course, which dealt with the educational basis and method of Primary Grade work. His thorough and scholarly treatment of this important and rather difficult subject, as well as his own fine enthusiasm and personality, will not soon be forgotten by those who had chosen this course. The second or Manual Arts part of the course, which dealt with Primary Grade handwork, was conducted by Mr. Arthur E. Hutton, who is instructor in that branch in the Calgary Normal School. Mr. Hutton, in the very limited time allowed, gave his students not only a new conception of the educational bearing of Manual Arts work in the primary school, but also a high standard of efficiency in handling it.

The third part of the Primary Grade Course consisted in the giving of instruction in children's stories and dramatization and in daily demonstrations in methods of teaching and in the routine of class-room management. This part of the course was conducted by Miss Belle Dirimple, B.A., Principal of the Crown Hill Primary School, Seattle, Wash., who brought to this work extensive experience and high personal ability. One of the class-rooms in the High School was specially fitted up as a Primary Grade class and observation-room, where Miss Dirimple had charge of a class of small boys and girls from 10 to 12 o'clock daily.

A new course dealing with a study of children's literature for school and home use and the organization and management of the school library was included this year and proved to be of real value. The course was co-ordinated with the Primary Grade teachers' course. Instruction was given by Miss Gertrude Andrus, of Seattle, who has made a special study of children's literature, and by Miss Ellen Howe, Assistant Reference Librarian and Special Lecturer in Library Economy in the University of Washington. The course included a careful first-hand

study of children's books in the special children's department of the Victoria City Library from one to two hours daily, in addition to lecture periods conducted at the High School. The success with which this new course was carried out is in no small measure due to the enthusiastic co-operation and assistance given by Miss Helen Stewart, Librarian at the Victoria Public Library, and also by Miss Clay, of the Children's Department of the Library. Mr. Killam, Officer in Charge of the Travelling Libraries in British Columbia, also gave valuable assistance in connection with this course.

Two special or part-time courses were conducted this year. The Penmanship Course was taken by 126 students and the Course in Physical Training by fifty students. Mr. H. B. MacLean, who has just completed a new writing course for the schools, was in charge of the Summer School Course in Penmanship, and was assisted by Mr. R. W. MacKenzie, who conducted these classes a year ago. A special course of lectures and demonstrations in writing covering one week was also given by Mr. Frank H. Arnold, Supervisor of Writing in the schools of Spokane, Wash. The Course in Physical Training, which included gymnasium calisthenics, folk dances, games, swimming, hygiene, and corrective work, was conducted by Miss Margaret L. Brackett, Physical Director at Macdonald College, Montreal, and was highly successful. It is to be hoped that these special courses will be continued and that they will include even larger numbers of students as years go by.

As in previous years, Courses in Rural Science, Art, Vocal Music, and Household Economics were conducted, the result obtained being highly satisfactory. These courses are outlined in detail in the "General Announcement of Summer School Courses," published by the Department and distributed to the teachers previous to the opening of the school. The subjects included in the above courses and the instructors in charge were as follows:—

School-gardening and Poultry-study—A. M. McDermott, B.S.A., New Westminster.
Home-project Work, School Fairs, and Club Organization—V. B. Robinson, B.S.A., Vernon.
Soil-study and Field Husbandry—J. C. Readey, B.S.A., Chilliwack.
Horticulture and Floriculture—J. E. Britton, B.S.A., Kelowna.
Plant-studies—George B. Rigg, A.M., Ph.D., Professor of Botany, University of Washington, Seattle.
Insect-studies—R. C. Treherne, B.S.A., Entomologist in British Columbia for the Dominion Government.
Animal Husbandry and Bird-study—W. M. Fleming, B.S.A., Duncan.
Dairying and Bee-keeping—J. B. Munro, B.S.A., Armstrong.
Agricultural Chemistry and Bacteriology—J. M. Shales, B.A., B.S.A., Murrayville.
Preliminary Art Course, Nature and Object Drawing, Lettering, and Design—W.P. Weston, Art Master, Vancouver Normal School.
Advanced Art Course, Drawing and Painting from Objects, Applied Design, and Lettering—John Kyle, A.R.C.A., Art Master, and Miss Adeline Baxter, Supervisor of Drawing, Winnipeg, Manitoba.
Manual Training, Pedagogics, Theory and Class-teaching, Drawing, Mechanics, and Design—Alexander S. Hamilton, Supervisor of Manual Training, South Vancouver.
Metalwork Course—Harry A. Jones, Instructor in Metalwork, Vancouver Technical School.
Preliminary Home Economics—Miss Grace Dutcher, Vernon.
Advanced Home Economics—Miss Edith Bowman, B.Sc., Technical High School, Edmonton, Alta.
Vocal Music and Elocution—Miss Ethel M. Coney, Music Mistress, Vancouver Normal School.

It is a matter of some regret that a larger number of our public-school teachers do not avail themselves of the splendid opportunity offered in these summer courses. Those who attend from year to year will testify as to the value derived from the summer courses, but these represent only about 10 per cent. of the teachers of the Province. A Public School Inspector in an Eastern Province was recently reported as having stated, in reply to an inquiry regarding his supply of teachers, that he had some good ones and some mechanical ones, and that most of the good ones were taking summer courses, while none of the mechanical ones were. With only one out of every ten of our teachers in British Columbia attending summer school, one might seem justified in asking whether a large number were not becoming too mechanical in their profession. If the

summer courses provided are not those which the majority of our public-school teachers desire, we would do well to alter those courses, or add to them that which may perchance make an appeal to a larger number. Certain it is that no teacher can cease to be a student and long remain successful in his work. With a view to having the 1922 summer school serve a larger number of our teachers, I would recommend that additional courses be offered. It has been the usage for years in this as in other Provinces to limit summer-school instruction to the newer subjects in education, such as nature-study, manual training, agriculture, domestic science, music, etc., on the assumption that teachers generally were less familiar with these, and therefore needed special instruction in them rather than in the older subjects. This situation is changing, however, and with it the function of the summer school. Without doubt there is still need of giving special attention to the teaching of these newer subjects, and more particularly to the educational unity which calls for the intimate correlation of these newer subjects with the older, more formal subjects of the curriculum, but there is also need of further instruction in methods pertaining to the older subjects themselves. The "educational waste" sometimes referred to in connection with the teaching of the newer subjects on the curriculum, if carefuly looked into, might be traced rather to obsolete methods in connection with the teaching of the older subjects.

The Normal Schools do well in the limited time at their disposal to give their youthful graduates a reasonably good start along the line of general educational principles and of special method, but this preparation needs subsequent development which practice in teaching alone cannot give. It remains for the teachers' summer school or the summer session of the University to supplement and develop the professional training so well begun in the Normal School—a sort of post-graduate course in the science and practice of education, not limited merely to a few of the newer subjects, but broad and generous in the courses offered.

As in former years, arrangements were made for a series of Friday evening lectures, when the students and the public generally were privileged to listen to lecturers of ability from outside points. The first of these was given by Dr. Jas. W. Robertson, C.M.G., Dominion Commissioner of Boy Scouts and Chairman of the Red Cross Society in Canada, who delivered a most illuminating and forceful address on "National Movements for Good Health and Good Citizenship," the Honourable the Minister of Education presiding. The three following weekly lectures were given by Dr. Coleman, Dean of the Faculty of Arts and Science in the University of British Columbia, on "Poetry and Childhood"; by Dr. Weir, Principal of the Provincial Normal School at Saskatoon, Sask., on "An Educational Outlook"; and by Dr. Haggerty, Dean of the Faculty of Education in the University of Minnesota, on "Some Children I Have Known." These open lectures were well attended by the students as well as by the people of the city.

The social life of the school was never better. The splendid "school spirit" which existed throughout was a matter of frequent comment amongst the instructors, and whether at work or at play enthusiasm and good-fellowship were everywhere in evidence. Occasional class picnics and excursions, together with the weekly at home and dance, helped to bring the students together in pleasant and beneficial association. The annual summer-school picnic was again held at the Experimental Farm at Bazan Bay, as the social and entertainment committee were a unit in favouring this point. As in previous years, the return trip included a most delightful hour or two at the beautiful Butchart gardens and also a basket supper at Observatory Hill, after which a visit was paid to the observatory before returning to the city.

On Tuesday evening of the last week the students of the Music class, under the direction of their instructor, Miss E. M. Coney, Music Mistress in the Vancouver Normal School, gave a very pleasing and interesting programme in the Assembly Hall, and on Thursday evening an exhibition of summer-school work was arranged in the various class-rooms of the High School. The quality of the work displayed certainly gave ample testimony as to the skilful and painstaking work of both students and instructors. The exhibits of work in the Manual and Art Departments were particularly good and were greatly admired by the large number of visitors that attended.

The formal closing took place in the Assembly Hall during the same evening, Mr. S. J. Willis, Superintendent of Education, presiding. An address was given by the Hon. John Oliver, Premier of British Columbia, in which he expressed hearty commendation of the work of the students and their instructors, and expressed the hope that still further branches of study might be included in these summer courses for teachers. Immediately on the close of the meeting in the Assembly Hall the large audience was treated to a very delightful programme of folk dances and music,

which was carried out in the gymnasium by the pupils of the Physical Training class under the direction of their instructor, Miss Brackett, assisted by local musical talent.

The summer-school classes closed at 3 p.m. on Friday, August 5th, amidst many expressions of appreciation from the students on behalf of the school in general and in praise of the fine work of the instructors in particular. Certainly the 1921 summer school has set a standard for good work on the part of both the students and instructors that will be difficult to surpass in future schools.

I have, etc.,

J. W. GIBSON,

Director of Summer School.

FREE TEXT-BOOK BRANCH.

EDUCATION DEPARTMENT, FREE TEXT-BOOK BRANCH,
VICTORIA, B.C., September 30th, 1921.

S. J. Willis, Esq.,
Superintendent of Education, Victoria, B.C.

SIR,—I beg to submit the following report on the work of the Free Text-book Branch for the school-year ending June 30th, 1921:—

SUPPLIES ISSUED.

The total number of free text-books, etc., issued during 1920–21 to the public schools (common, graded, superior, high, night, etc.), and in connection with the Correspondence Course established for children in isolated districts where schools cannot be maintained, was as follows: 13,087 B.C. Beginner's Reader; 283 Teacher's Handbook to Beginner's Reader; 12,133 B.C. Phonic Primer; 11,270 B.C. First Reader; 11,230 B.C. Second Reader; 11,681 B.C. Third Reader; 9,859 B.C. Fourth Reader; 972 N.C. First Primer; 1,276 N.C. Second Reader; 3,257 N.C. Fifth Reader; 20,705 First Arithmetic; 17,201 Second Arithmetic; 10,986 New Method Writing Pad, Part I.; 6,471 New Method Writing Pad, Part II.; 56,218 Writing Book; 46,549 Drawing Book; 4,118 Supplementary Reader (Heart of Oak, Book I.; Art-Literature Primer; Art-Literature, Book I.; Art-Literature, Book II.; Progressive Road to Reading, Book 3A; Robin Hood Readers); 68 Essentials of Health; 8,154 How to be Healthy; 2,071 Latin Lessons for Beginners; 175 Canadian Civics; 192 Syllabus of Physical Exercises; 561 World Relations and the Continents; 8,148 History of Canada; 340 Teaching Writing, Books 1–4; 567,320 sheets Drawing Paper, 9 by 6 inches; 24,269 sheets Drawing Paper, 9 by 12 inches; 8,009 Public School Grammar; 158 Union Jacks (3-yard Jack); 196 Flora of Southern British Columbia; 36 "Scrap of Paper"; 38 "Fathers of Confederation"; 1,904 copies Children's Story of the War; 10 Globes; 39 Maps of British Isles; 42 Maps of Dominion of Canada; 51 Maps of World; 38 Maps of British Columbia; 50 Maps of North America.

At prevailing retail prices the books and other supplies issued would have cost $130,436.32.

Requisitions to the number of 3,507 for the above supplies issued were required to be filled. This called for a shipment to all parts of the Province of 698 cases and 2,786 parcels, the total weight of which was 203,296 lb. No shipment was lost in transit.

In addition to 3,507 requisitions filled in 1920–21 to meet the needs of the public schools and pupils taking Correspondence Courses, the Free Text-book Branch honoured 475 requisitions for departmental purposes and for those who required to purchase school supplies. These orders added 8 cases and 478 parcels (weighing in all 3,556 lb.) to the list of shipments for the year. The sum of $1,650.22 was received under this head and paid into the Provincial Treasury.

EXPENDITURE.

The chief expenditure of the Free Text-book Branch was made up as follows:—

Text-books, etc.	$69,733 66
Freight and drayage	4,294 88
Distribution (freight, boxes, etc.)	2,950 89
Salaries of staff	5,427 09
Temporary assistance	506 69
Total	$82,913 21

As already stated, the Free Text-book Branch distributed during the past school-year text-books and other supplies which would have cost parents and School Boards $130,436.32. To purchase and distribute these among the various schools of the Province through the Free Text-book Branch required an expenditure of $86,512.39, made up as follows:—

Text-books (laid-down cost)	$77,627 72
Distribution (freight, boxes, etc.)	2,950 89
Salaries of staff	5,427 09
Temporary assistance	506 69
Total	$86,512 39

The saving on the year's transactions is, therefore, $43,923.93. It may be explained, however, that the outlay for postage on parcels of free text-books to various points is not included in "Distribution." A similar remark applies to other items, such as office supplies, etc. Were these included the saving for the year would be slightly reduced.

It may be added that a considerable stock of supplies from the previous year was on hand at the commencement of the past school-year. This will account for the apparent discrepancy between $74,028.54 ($69,733.66 plus $4,294.88), the amount expended to purchase and lay down supplies for 1920–21, and $77,627.72, the amount of the laid-down cost of supplies distributed during that period.

Night-schools.

Of the night-schools in operation during the past school-year, seven were supplied with text-books of some kind by the Free Text-book Branch. Supplies were issued to pupils attending these schools on the same conditions as outlined in report of 1918–19.

Returns for 1920–21.

All the annual reports of free text-books for the school-year 1920–21 are now on file, with the exception of those from five schools. One of these schools has been closed and is therefore unable to make this return. The present teachers of the other four schools have been requested to advise the Free Text-book Branch as to the number of books on hand when the school opened at the beginning of the school-year 1921–22.

The majority of the annual returns show that care has been taken to keep an accurate record of all supplies received from this office. In some cases, however, it is quite noticeable that little or no attempt has been made by the teacher to account for the books in his or her charge. This is especially true of schools where there has been a change of teachers at the Christmas vacation. It was necessary for several teachers to apply to the Free Text-book Branch to ascertain what books had been supplied to their schools during the term before Christmas. This would have been unnecessary if the teacher for the first half of the year had entered the various books received at the school in the Teacher's Record Book. When the Principal's Record and Teacher's Record Books have not been accurately kept it makes it almost impossible for the teacher to submit the annual report.

In some instances the teachers have stated that they were unable to find several of the books reported on hand in the schools by the former teachers. This might be obviated in future if the teachers will count the actual number of books on hand at the close of the school-year and verify the numbers given in their annual reports.

While the majority of the teachers in the schools appear to be taking care of the Supplementary Readers, it is evident that some of them are not looking after these books as they should. A number of these Readers are reported missing and many are reported as unfit for further use before they have been used for more than two or three years. These books should last at least five years if used only in the class-room and care is taken that the pupils do not disfigure them unnecessarily.

In the case of a few schools it was necessary to withhold their supplies until the annual report was received. This delay could be avoided if the Secretaries of the various School Boards made a point of securing this return from the teacher at the close of the school-year before he or she left the district, and of then forwarding it to the Free Text-book Branch.

Free Text-books in Use.

The practice of addressing a printed inquiry to teachers about the free text-book system as applied to their schools was continued in 1920–21. All important errors revealed by the various replies received attention and any information asked for supplied.

New Price-list.

The price-list is being revised and a copy of the new list will be forwarded to every school. At the prices given therein teachers will be authorized to supply from the reserve stock (if any) second copies of free text-books to pupils who may require to replace lost or destroyed texts. The amounts obtained are to be remitted to the Free Text-book Branch at the time of sale.

I have, etc.,

J. A. Anderson,

Officer in Charge.

THE STRATHCONA TRUST.

Report of the Secretary, Local Committee, Strathcona Trust, for the Province of British Columbia, for the School-year 1920-21.

VICTORIA, B.C., October, 1921.

SIR,—I have the honour to report as follows on the work of the Local Committee for the school-year 1920-21:—

INSTRUCTION OF TEACHERS IN PHYSICAL TRAINING, 1920-21.

During the past year, 299 physical-training certificates, Grade B (Strathcona Trust Syllabus), were granted to prospective teachers in attendance at the Provincial Normal Schools (Vancouver and Victoria). About 3,591 teachers and prospective teachers of this Province have now qualified as physical-training instructors.

PHYSICAL TRAINING, 1920-21.

The list of Strathcona Trust prizes for excellence in physical training for the school-year 1920-21 is as follows:—

High and Superior Schools.

Inspectorate No. 1 (A. Sullivan, B.A., Inspector)—
1st Prize—Gordon Downes, B.A., 3rd Division, Oak Bay High School.
2nd Prize—J. Grahame Darling, B.Sc., 1st Division, Bridgeport High School.
3rd Prize—Miss E. M. Cadow, B.A., 3rd Division, Nanaimo High School.

Inspectorate No. 2 (J. B. DeLong, B.A., Inspector)—
1st Prize—H. M. Robertson, B.A., 2nd Division, Cranbrook High School.
2nd Prize—T. J. Barron, B.A., 1st Division, Nakusp Superior School.
3rd Prize—Not awarded.

Common and Graded Schools.

Inspectorate No. 1 (W. H. M. May, Inspector)—
1st Prize—Miss Edith Chandler, Nob Hill School.
2nd Prize—Mrs. Kate Ford, 2nd Division, Beacon Hill School, Victoria.
3rd Prize—Miss Isabel B. Scobie, 2nd Division, Merville School.

Inspectorate No. 2 (A. C. Stewart, Inspector)—
1st Prize—Miss S. E. Hardy, 14th Division, Quennell School, Nanaimo.
2nd Prize—Miss Maud Knappet, 4th Division, Lampson Street School, Esquimalt.
3rd Prize—Miss Agnes Waugh, 2nd Division, South Wellington School.

Inspectorate No. 3 (J. T. Pollock, Inspector)—
1st Prize—H. L. Paget, 2nd Division, Aberdeen School, Vancouver.
2nd Prize—Miss E. M. Pearson, 4th Division, Mount Pleasant, Vancouver.
3rd Prize—Miss M. A. Williams, 14th Division, Dawson School, Vancouver.

Inspectorate No. 4 (H. H. MacKenzie, B.A., Inspector)—
1st Prize—R. Straight, 1st Division, Lord Tennyson School, Vancouver.
2nd Prize—H. B. King, 1st Division, General Gordon School, Vancouver.
3rd Prize—H. A. Eckardt, 2nd Division, Mission City School.

Inspectorate No. 5 (L. J. Bruce, Inspector)—
1st Prize—Miss Edith A. Middlemiss, 6th Division, Henry Hudson School.
2nd Prize—Miss Dorothy M. Martin, 3rd Division, Magee School, Point Grey.
3rd Prize—Miss Maizie A. Suggitt, 4th Division, Henry Hudson School, Vancouver.

Inspectorate No. 6 (John Martin, Inspector)—
1st Prize—Miss H. R. Anderson, 2nd Division, Lord Selkirk School, South Vancouver.

Inspectorate No. 6—*Continued.*

2nd Prize—Mrs. Hazel M. Jex, 5th Division, Sir Alexander MacKenzie School, South Vancouver.

3rd Prize—George S. Wate, 1st Division, Secord School, South Vancouver.

Inspectorate No. 7 (F. G. Calvert, Inspector)—

1st Prize—Miss M. Simmons, 7th Division, Kingsway West School, Burnaby.

2nd Prize—J. Burnett, 4th Division, Gilmore Avenue School, Burnaby.

3rd Prize—Miss M. C. Morrow, 3rd Division, Kingsway West School, Burnaby.

Inspectorate No. 8 (Arthur Anstey, B.A., Inspector)—

1st Prize—W. T. Fennell, 1st Division, Herbert Spencer School, New Westminster.

2nd Prize—R. S. Shields, B.A., 1st Division, F. W. Howay School, New Westminster.

3rd Prize—Miss F. L. Whitworth, 1st Division, Murrayville School.

Inspectorate No. 9 (A. F. Matthews, M.A., Inspector)—

1st Prize—H. S. Hurn, 2nd Division, Merritt Superior School.

2nd Prize—Miss Kathleen Lawrence, 10th Division, Central School, Kamloops.

3rd Prize—Miss Margaret Wright, Louis Creek School.

Inspectorate No. 10 (A. R. Lord, B.A., Inspector)—

1st Prize—T. Aldworth, 1st Division, Central School, Armstrong.

2nd Prize—Miss Lillian Johnson, Okanagan School.

3rd Prize—Miss Dorothy Leckie, 6th Division, Central School, Kelowna.

Inspectorate No. 11 (A. E. Miller, Inspector)—

1st Prize—Miss Hazel M. Trembath, 3rd Division, Central School, Rossland.

2nd Prize—Miss Rebecca Johnston, Cascade School.

3rd Prize—Mrs. Edna H. Macpherson, Trout Lake School.

Inspectorate No. 12 (E. G. Daniels, B.A., Inspector)—

1st Prize—Miss Katherine Wallach, 8th Division, Central School, Nelson.

2nd Prize—Miss J. N. Corbett, 1st Division, Canyon City School.

3rd Prize—Thomas Prescott, 1st Division, Coal Creek School.

Inspectorate No. 13 (J. M. Paterson, B.A., Inspector)—

1st Prize—Miss Lena Wolfenden, 2nd Division, Ocean Falls School.

2nd Prize—Miss Ann M. McKinnon, 4th Division, Central School, Prince Rupert.

3rd Prize—Miss Jessie Rothwell, 3rd Division, Central School, Prince Rupert.

Inspectorate No. 14 (G. H. Gower, M.A., Inspector)—

1st Prize—Miss E. Milligan, 5th Division, Prince George School.

2nd Prize—Miss Drina Fraser, Fort Fraser School.

3rd Prize—Miss Marjorie Baker, 2nd Division, McBride School.

1st prize, $12; 2nd prize, $10; 3rd prize, $8; amount expended under this head for 1920–21, $472.

PHYSICAL TRAINING, 1921–22.

For competition among high and superior schools during 1921–22 the sum of $27 has been granted to each of the two inspectorates. This sum is to be divided into three prizes of $9 each. For the purposes of competition and inspection the schools are to be divided into three groups or classes, viz.: Group A, of five divisions or more; Group B, of two to four divisions, inclusive; Group C, of superior schools and high schools containing only one division.

For competition among public schools the sum of $432 has been granted—i.e., $27 (to be divided into three prizes of $9 each) for each of the sixteen inspectorates. For the purpose of competition and inspection the schools in each inspectorate are to be divided into three groups or classes, viz.: Group A, of five divisions or more; Group B, of two to four divisions, inclusive; Group C, of all ungraded schools. As the inspectorates are divided geographically rather than with regard to the size and classification of schools, it is realized that the above arrangement may not completely meet the conditions in a few cases. In any inspectorate, therefore, where this classification is found to be wholly unsatisfactory, the matter of dividing the schools into three groups or classes for the purpose of awarding three prizes of equal value is to be left to the discretion of the Inspector in charge. In all cases, however, the teacher and the class are to be considered as the unit in making comparisons for granting the awards. As before, the teacher to whom the award has been made shall be entitled to receive two-thirds of the prize; the other one-third to be expended for a picture or some piece of apparatus (suitably inscribed)

for the room in which it was won. Only those teachers who are the holders of physical-training certificates granted under the Strathcona Trust are eligible to compete.

MILITARY DRILL, 1920–21.

In June thirty-eight public-school cadet corps paraded for the annual inspection, 1920–21. The number then present was 3,658 out of a total enrolment of 4,157 boys of cadet age. Although the report of 1919–20 shows 3,855 cadets as present at the annual inspection, the difference is accounted for by the elimination of all cadets not over 12 years of age at the inspection in 1920–21. There were 5,300 cadets trained during 1920–21—a considerable increase over the number trained during 1919–20.

The comparative rank awarded by the Inspecting Officer at the annual inspection for 1920–21 is as follows:—

Corps.	Rank awarded.
No. 101. Vancouver Cadet Regiment—	
King Edward High School	1
No. 112. Victoria High School	2
No. 101. Vancouver Cadet Regiment—	
Britannia High School	3
King George High School	4
No. 530. Connaught High School (New Westminster)	5
No. 388. Victoria Cadet Battalion—	
Boys' Central School	6
No. 101. Vancouver Cadet Regiment—	
Lord Tennyson School	7
Cecil Rhodes School	8
No. 388. Victoria Cadet Battalion—	
North Ward School	9
No. 101. Vancouver Cadet Regiment—	
Aberdeen School	10
No. 388. Victoria Cadet Battalion—	
George Jay School	11
Sir James Douglas	12
No. 101. Vancouver Cadet Regiment—	
General Gordon School	13
Lord Nelson School	14
Fairview School	15
Alexandra School	16
Grandview School	17
Franklin School	18
No. 388. Victoria Cadet Battalion—	
Quadra School	19
Margaret Jenkins	20
No. 101. Vancouver Cadet Regiment—	
Laura Secord School	21
No. 372. Nanaimo School	22
No. 360. Kaslo School	23
No. 903. Kelowna School	24
No. 101. Vancouver Cadet Regiment—	
Dawson School (A)	25
No. 388. Victoria Cadet Battalion—	
Victoria West School	26
No. 101. Vancouver Cadet Regiment—	
Model School	27
Macdonald School	28
Lord Roberts School	29
Henry Hudson School	30

Corps.	Rank awarded.
No. 388. Victoria Cadet Battalion—	
Oaklands School	31
No. 101. Vancouver Cadet Regiment—	
Charles Dickens School	32
No. 854. Chilliwack School	33
No. 101. Vancouver Cadet Regiment—	
Dawson School (B)	34
Simon Fraser School	35
Strathcona School	36
Hastings School	37
No. 902. Cranbrook School	38

Twenty-five prizes were awarded in accordance with the schedule adopted at the last meeting of the Local Committee held on October 24th, 1921, one-half of each prize to be paid to the corps and one-half to the instructor, provided he is a public-school teacher qualified as a cadet instructor. When an instructor is not a public-school teacher, one-half of the prize reverts to the general fund of the Local Committee. The expenditure under this head for 1920–21 amounted to $305, and was made according to the following schedule:—

1st prize	$25	14th prize	$10
2nd „	20	15th „	10
3rd „	18	16th „	10
4th „	18	17th „	10
5th „	16	18th „	10
6th „	16	19th „	10
7th „	14	20th „	10
8th „	14	21st „	10
9th „	12	22nd „	10
10th „	12	23rd „	10
11th „	10	24th „	10
12th „	10	25th „	10
13th „	10		

Comments by the Organizing and Inspecting Officer (Lieut.-Col. W. H. Belson) in his annual report to the Local Committee are here noted:—

"The efficiency of the cadets is steadily improving—the improvement being specially noticeable in the larger centres such as Victoria and Vancouver.

"There were four cadet camps held in the district—at Sidney, Kelowna, Kaslo, and Cranbrook—with a total attendance of twenty-eight instructors and 1,009 cadets. This number could have been greatly increased if funds had permitted. The camps proved an unqualified success and both instructors and cadets were well pleased with the work carried out and the arrangements made for their comfort.

"The allowance to cadet instructors has been increased from $1 to $2 for the first fifty cadets trained and $1 for the remainder.

"A school for qualifying teachers as cadet instructors was held at Victoria for six weeks during the summer holidays, fifty-four teachers taking the course. Highly complimentary letters with regard to benefits derived from the course and the treatment received from the school staff have since been received from some of the teachers who attended."

RIFLE SHOOTING.

From the grant for rifle shooting, 1920–21, prizes were provided for thirty-nine qualified corps or units specified in returns—viz., $3.75 each; this amount to form cash prizes for the three best shots in each corps or unit (1st prize, $1,50; 2nd prize, $1.25; 3rd prize, $1).

The following accordingly received grants of $3.75 each for rifle shooting, 1920–21: Vancouver 101st Cadet Regiment (King Edward High School A and B, King George High School, Britannia High School, Henry Hudson, Alexandra, Cecil Rhodes, Charles Dickens, Lord Nelson, Simon Fraser, Model, Laura Secord, Grandview, Hastings, Lord Tennyson, Aberdeen, Lord Roberts, Dawson A and B, General Gordon, Strathcona, Macdonald, Fairview, Franklin, Kitsilano); Victoria No. 388 Cadet Battalion (George Jay, Sir James Douglas, Oaklands, Quadra, South

Park, Boys' Central, Victoria West, Margaret Jenkins, North Ward); Victoria High School, No. 112 A and B; Penticton, No. 788 A and B; Chilliwack, No. 854.

FINANCIAL STATEMENT FOR 1920–21.

The funds at the disposal of the Local Committee for 1920–21 amounted to $1,412.76 and the expenditure for the year $923.25, leaving a balance of $489.51. Of the latter sum, $486 has already been voted for physical-training prizes for 1921–22.

Receipts.

1920–21.	Balance on hand from 1919–20	$ 489 46
	Interest to November 30th, 1920	14 00
	Uncashed cheques (paid into fund)	12 98
	Interest to May 31st, 1921	7 57
	Allowance to Secretary (added to fund)	9 85
	Grant for 1920–21	878 90
		$1,412 76

Disbursements.

1920–21.	Prizes for physical training	$ 472 00
	Prizes for military drill	305 00
	Prizes for rifle shooting	146 25
		$ 923 25
	Balance on hand	$ 489 51

LOCAL AID TO CADET CORPS.

Authority has now been given by Statute to School Boards to make expenditures from school funds in aid of cadet corps and of an extension of physical training. This is contained in section 129A, "Public Schools Act" (consolidated for convenience in 1921), and is as follows:—

"The Board of School Trustees of any school district may establish and maintain an advanced course in physical training, including gymnastic exercises or cadet instruction, or both, and the entire cost of all necessary equipment and of maintenance shall be defrayed by the Board of School Trustees; but where the time of any teacher is devoted wholly to such course, that teacher shall be included in the number of teachers on which the per capita grant payable to that school district by the Minister of Finance pursuant to section 19 or 20 of this Act is based."

I have, etc.,

J. L. WATSON,

Secretary, Local Committee, Strathcona Trust, for British Columbia.

PART II.

STATISTICAL RETURNS.

HIGH SCHOOLS.

School.	Teacher.	Certificate.	Salary (Year).	Days School was in Session.	Enrolment.	Boys.	Girls.	Average Daily Attendance.	A.—English.			
									Reading.	Writing & Spelling.	Comp. and Rhetoric.	English Literature.
			$									
Agassiz	Miss J. E. Whitman, M.A	Academic	1,500	183	25	8	17	23.12	25	25	25	25
Armstrong, 1st Div.	L. C. S. Kennedy, B.A.	"	2,100	187½	24	5	19	21.36	24	24	24	24
" 2nd "	Miss L. C. Giegerich, B.A.	"	1,600	187½	17	10	7	14.97	17	17	17	17
					41	15	26	.....	41	41	41	41
Bridgeport, 1st Div.	J. G. Darling, B.Sc.	"	2,300	185	8	2	6	6.74	8	8	8	8
" 2nd "	Miss I. E. Clemens, B.A.	"	2,000	185	13	6	7	10.75	13	13	13	13
" 3rd "	W. J. Dowler, B.A.	"	1,600	185	31	7	24	25.12	31	31	31	31
					52	15	37	.....	52	52	52	52
Chilliwack, 1st Div.	H. C. Fraser, B.A	"	2,600	178	21	11	10	17.35	21	21	21	21
" 2nd "	V. Woodworth, B.A.	"	2,000	178	36	14	22	28.90	36	36	36	36
" 3rd "	Miss E. G. Cameron, B.A.	"	1,800	178	28	26	2	20.72	28	28	28	28
" 4th "	Miss I. Ashwell, B.A.	"	1,400	178	43	8	35	33.75	43	43	43	43
					128	59	69	.....	128	128	128	128
Courtenay	A. P. Carter, B.A.	"	1,680	180	23	5	18	18.25	23	23	23	23
Cranbrook, 1st Div.	W. M. Armstrong, B.A.	"	2,500	187	24	8	16	20.16	24	24	24	24
" 2nd "	H. M. Robertson, B.A.	"	1,955	187	20	8	12	16.82	20	20	20	20
" 3rd "	Miss Q. E. Shields, B.A.	Temporary	1,250	187	33	17	16	30.63	33	33	33	33
					77	33	44	.....	77	77	77	77
Creston	C. Brousson, B.Sc.	Academic	1,700	183½	24	8	16	18.55	24	24	24	24
Cumberland, 1st Div.	C. B. Wood, B.A.	"	2,000	188½	24	11	13	22.06	24	24	24	24
" 2nd "	Miss C. B. Dalton, B.A.	"	1,300	188½	14	6	8	12.69	14	14	14	14
					38	17	21	.....	38	38	38	38
Duncan, 1st Div.	N. F. Black, M.A., Ph.D.	"	2,000	187½	34	17	17	28.48	34	34	34	34
" 2nd "	E. C. Richards, B.A.	"	1,750	187½	30	9	21	25.00	30	30	30	30
					64	26	38	.....	64	64	64	64
Enderby	Miss C. L. Thomson, B.A.	"	1,800	188	30	12	18	26.63	30	30	30	30
Esquimalt, 1st Div.	H. R. Sharples, M.A.	"	2,400	188½	11	4	7	10.46	11	11	11	11
" 2nd "	Miss G. N. Hewlings, B.A	"	1,800	188½	20	11	9	16.97	20	20	20	20
" 3rd "	Miss K. Coates, B.A.	"	1,500	188½	20	8	12	18.16	20	20	20	20
					51	23	28	.....	51	51	51	51
Fernie, 1st Div.	J. B. Beddome, B.A.	"	2,400	187	18	5	13	16.74	18	18	18	18
" 2nd "	Miss L. A. St. James, B.A.	"	1,680	187	19	6	13	16.49	19	19	19	19
" 3rd "	Miss M. L. Corbett, B.A.	"	1,680	187	23	9	14	21.33	23	23	23	23
					60	20	40	.....	60	60	60	60
Golden	A. P. Nicholas, B.A.	"	1,800	183	19	9	10	14.74	19	19	19	19
Grand Forks, 1st Div.	G. B. Carpenter, B.A.	"	1,900	190	24	9	15	20.80	24	24	24	24
" 2nd "	Mrs. N. Steeves, B.A.	"	1,600	190	21	9	12	17.74	21	21	21	21
" 3rd "	C. B. Reynolds, M.A.	"	1,800	188½	29	13	16	24.03	29	29	29	29
					74	31	43	.....	74	74	74	74
Greenwood	H. M. Stramberg, B.A.	"	1,500	184	16	7	9	13.13	16	16	16	16
Kamloops, 1st Div.	T. R. Hall, B.A.	"	2,700	181½	20	8	12	18.39	20	20	20	20
" 2nd "	J. W. McNab, B.A.	"	2,350	181½	22	10	12	19.70	22	22	22	22
" 3rd "	Miss A. I. Grierson, B.A.	"	1,900	181½	24	10	14	20.97	24	24	24	24
" 4th "	D. H. Munro, B.A.	"	1,900	181½	15	7	8	13.81	15	15	15	15
" 5th "	Miss H. McLean	Commercial	1,900	181½	29	6	23	25.45	29	29	24	24
					110	41	69	.....	110	110	105	105
Kaslo, 1st Div.	L. B. Brown, B.Sc.	Academic	2,150	187	19	9	10	15.65	19	19	19	19
" 2nd "	Miss H. E. Laurie	"	1,320	187	28	12	16	23.42	28	28	28	28
					47	21	26	.....	47	47	47	47

SCHOOL-YEAR ENDING JUNE 30TH, 1921.

B.—History, Geography			C.—Mathematics.				D.—Science.					E. Classics.		F.	G.—Commercial.						H.—Technical						
Canadian Civics.	General History.	Geography.	Arithmetic.	Algebra.	Geometry.	Trigonometry.	Chemistry.	Physics.	Agriculture.	Physiology.	Botany.	Latin.	French.	Drawing.	Book-keeping.	Stenography.	Typewriting.	Business Forms and Laws of Business.	Economics.	Statute Law.	Woodwork.	Domestic Science.	Magnetism and Electricity.	Drafting.	Mechanics.	Metalwork.	Machine, Shopwork.
12	3	3	15	25	25	...	....	13	...	...	10	25	25	12	...	...	...	....	...	...	....	....	....	...	...	...	...
....	7	7	7	24	24	...	24	....	18	...	24	22	7	....	...	...	...	....	...	...	....	....	....	...	...	...	...
17	...	....	17	17	17	...	17	17	...	...	....	17	....	17	...	...	...	....	...	...	....	....	....	...	...	...	...
17	7	7	24	41	41	...	41	17	18	...	24	39	7	17	...	...	...	....	...	...	....	....	....	...	...	...	...
....	8	8	8	8	8	...	8	....	...	...	....	8	8	....	...	...	...	....	...	...	....	....	....	...	...	...	...
....	13	13	....	13	13	...	13	...	...	...	13	13	13	....	...	...	...	....	...	...	....	....	....	...	...	...	...
31	...	....	31	31	31	...	....	....	...	..	....	31	31	31	...	...	...	....	...	...	....	....	....	...	...	...	...
31	21	21	39	52	52	...	21	...	...	...	13	52	52	31	...	...	...	....	...	...	....	....	....	...	...	...	...
....	21	21	21	21	21	..	....	21	...	...	10	21	11	...	...	...	...	....	...	...	....	....	....	...	...	...	...
....	36	36	....	36	36	...	....	36	13	...	36	36	23	....	...	...	...	....	...	...	14	22	....	...	...	...	...
28	...	....	28	28	28	...	28	28	...	...	....	28	....	28	...	...	...	....	...	...	18	2	....	...	...	...	...
43	...	....	43	43	43	...	....	....	...	...	....	43	43	43	...	...	...	....	...	...	4	35	....	...	...	...	...
71	57	57	92	128	128	...	28	85	13	...	46	128	77	71	...	...	...	....	...	...	36	59	....	...	...	...	...
14	5	5	19	23	23	...	4	....	...	...	9	23	23	14	...	...	...	....	...	...	....	....	....	...	...	...	...
....	24	24	21	24	24	3	19	6	...	...	6	18	24	....	...	...	...	....	...	...	....	....	....	...	...	...	...
....	...	....	....	20	20	...	20	8	...	...	20	13	19	....	...	...	...	....	...	...	....	....	....	...	...	...	...
33	...	....	33	33	33	...	...	....	...	...	....	33	33	33	...	...	...	....	...	...	17	....	....	...	...	...	...
33	24	24	54	77	77	3	39	14	...	...	26	64	76	33	...	...	...	....	...	...	17	....	....	...	...	...	...
12	5	5	17	24	24	...	24	23	...	...	11	1	24	12	...	...	...	....	...	...	....	....	....	...	...	...	...
....	14	14	13	24	24	1	24	24	...	...	23	1	24	...	...	...	...	....	...	...	....	....	....	...	...	...	...
14	...	....	14	14	14	...	....	....	...	...	....	14	14	14	...	...	...	....	...	...	....	....	....	...	...	...	...
14	14	14	27	38	38	1	24	24	...	..	23	15	38	14	...	...	...	....	...	...	....	....	....	...	...	...	...
....	15	15	15	34	34	...	25	17	10	..	20	18	27	....	...	...	...	....	...	...	3	....	....	...	...	...	...
30	...	....	30	30	30	...	10	10	...	...	20	....	30	30	...	...	...	....	...	...	9	21	....	...	...	...	...
30	15	15	45	64	64	...	35	27	10	...	40	18	57	30	...	...	...	....	...	...	12	21	....	...	...	...	...
14	4	4	18	30	30	...	18	18	12	...	12	29	30	14	...	...	...	....	...	...	....	...	....	...	...	...	...
....	11	11	11	11	11	..	11	5	...	...	5	6	11	....	...	...	...	....	...	...	....	....	....	...	...	...	...
....	20	20	....	20	20	...	20	10	...	...	20	10	20	....	...	...	...	....	...	...	....	....	....	...	...	...	...
20	...	...	20	20	20	...	10	10	...	...	....	10	20	20	...	...	...	....	...	...	....	....	....	...	...	...	...
20	31	31	31	51	51	...	41	25	...	...	25	26	51	20	...	...	...	....	...	...	....	....	....	...	...	...	...
....	18	18	17	18	18	1	8	13	...	...	6	11	18	....	...	...	...	....	...	...	....	....	....	...	...	...	...
....	...	....	....	19	19	...	19	....	...	...	19	19	19	....	...	...	...	....	...	...	....	....	....	...	...	...	...
23	...	....	23	23	23	...	....	....	...	...	....	23	23	23	...	...	...	....	...	...	....	....	....	...	...	...	...
23	18	18	40	60	60	1	27	13	...	...	25	53	60	23	...	...	...	....	...	...	....	....	....	...	...	...	...
9	4	4	13	19	19	...	10	....	...	...	6	19	19	9	...	...	...	....	...	...	....	....	....	...	...	...	...
....	24	24	24	24	24	...	24	22	...	...	22	14	12	....	...	...	...	....	...	...	....	....	....	...	...	...	...
....	...	....	....	21	21	...	20	20	...	...	21	15	8	...	...	...	...	....	...	...	....	....	....	...	...	...	...
29	...	....	29	29	29	...	....	....	...	...	....	29	29	29	...	...	...	....	...	...	....	....	....	...	...	...	...
29	24	24	53	74	74	...	44	42	...	...	43	58	49	29	...	...	...	....	...	...	....	..	....	...	...	...	...
4	4	4	8	16	16	...	...	8	...	...	8	16	16	4	...	...	...	....	...	...	....	....	....	...	...	...	...
....	20	20	20	20	20	...	6	18	...	...	5	18	17	....	...	...	...	....	...	...	....	....	....	...	...	...	...
....	...	....	....	22	22	...	16	22	...	...	22	9	20	....	...	...	...	....	...	...	....	....	....	...	...	...	...
24	...	....	24	24	24	...	24	24	...	...	....	....	24	24	...	...	...	....	...	...	....	....	....	...	...	...	...
15	...	....	15	15	15	...	8	8	...	...	....	15	7	15	...	...	...	....	...	...	....	....	....	...	...	...	...
16	...	....	29	....	....	...	....	....	...	...	....	....	....	....	29	29	29	13	...	...	....	....	....	...	...	...	...
55	20	20	88	81	81	...	54	72	...	...	27	42	68	39	29	29	29	13	...	...	....	....	....	...	...	...	...
13	4	4	13	19	19	6	....	6	...	...	..	17	18	13	...	...	...	....	...	...	....	....	....	...	...	...	...
....	10	10	10	28	28	...	10	11	...	...	18	17	28	....	...	...	...	....	...	...	....	....	....	...	...	...	...
13	14	14	23	47	47	6	10	17	...	...	18	34	46	13	...	...	...	....	...	...	....	....	....	...	...	...	...

HIGH SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Salary (Year).	Days School was in Session.	Enrolment.	Boys.	Girls.	Average Daily Attendance.	A.—ENGLISH. Reading.	Writing & Spelling.	Comp. and Rhetoric.	English Literature.
			$									
Kelowna, 1st Div.	W. G. Garner, B.A.	Academic	2,500	187	18	6	12	15.18	18	18	18	18
" 2nd "	Miss E. McNaughton, M.A.	"	2,000	182	30	15	15	29.27	30	30	30	30
" 3rd "	Miss C. Caldwell, B.A	"	1,560	183	36	14	22	34.90	36	36	36	36
					84	35	49		84	84	84	84
Ladner, 1st Div.	C. S. Dobbins, B.A.	"	2,310	187½	19	2	17	17.25	19	19	19	19
" 2nd "	Miss J. Robinson, B.A.	"	1,430	182½	18	7	11	16 85	18	18	18	18
					37	9	28		37	37	37	37
Ladysmith, 1st Div.	W. H. Hudson, M.A.	"	2,000	187½	27	13	14	25.49	27	27	27	27
" 2nd "	Miss M. K. Mutrie, B.A.	"	1,500	187½	22	11	11	16.86	22	22	22	22
" 3rd "	Miss G. M. Calkins	Temporary	1,300	187½	21	4	17	15.30	21	21	21	21
					70	28	42		70	70	70	70
Langley, 1st Div.	Miss E. M. Montgomery, B.A.	Academic	2,000	188	22	5	17	19.96	22	22	22	22
" 2nd "	Miss L. M. White, B.A.	"	1,640	183	15	3	12	12.36	15	15	15	15
					37	8	29		37	37	37	37
Maple Ridge, 1st Div.	W. M. Keatley	"	1,500	186	9	7	2	7.25	9	9	9	9
" 2nd "	A. M. Maxwell, B.A.	"	1,350	186	21	8	13	17.35	21	21	21	21
					30	15	15		30	30	30	30
Matsqui, 1st Div.	Miss M. M. Miller, B.A.	"	1,500	183	12	5	7	10.05	12	12	12	12
" 2nd "	Miss A. Abram, M.A.	Temporary	1,200	183	11	3	8	8.69	11	11	11	11
					23	8	15		23	23	23	23
Mission, 1st Div.	W. G. Gamble	Academic	1,900	182	12	4	8	8.00	12	12	12	12
" 2nd "	Mrs. M. Ashmore, M.A.	"	1,560	182	15	8	7	12.17	15	15	15	15
" 3rd "	N. Murray	Temporary	1,400	179	27	13	14	22.75	27	27	27	27
					54	25	29		54	54	54	54
Nanaimo, 1st Div.	R. H. Manzer, M.A.	Academic	2,500	188½	23	5	18	18.96	23	23	23	23
" 2nd "	G. A. Coombs	Temporary	1,900	188½	41	13	28	36.23	41	41	41	41
" 3rd "	Miss E. M. Cadou, B.A.	Academic	1,900	188½	40	16	24	34.19	40	40	40	40
" 4th "	Miss L. J. Kennedy, B.A.	"	1,900	188½	39	17	22	33.99	39	39	39	39
					143	51	92		143	143	143	143
Nelson, 1st Div.	B. P. Steeves, B.A.	"	2,850	186½	6	1	5	5.69	6	6	6	6
" 2nd "	R. Smillie, B.A	"	2,500	186½	32	14	18	27.26	32	32	32	32
" 3rd "	N. R. Fallis, B.A.	"	2,500	186½	19	7	12	16.59	19	19	19	19
" 4th "	Miss S. E. Keatley, M.A.	"	1,800	181½	23	10	13	20.87	23	23	23	23
" 5th "	A. D. Thorp, M.A.	"	2,400	181½	27	20	7	20.54	27	27	27	27
" 6th "	Miss E. J. Jackson, B.A.	"	1,800	181½	29	9	20	25.49	29	29	29	29
" 7th "	Miss K. Falconer, M.A.	"	1,800	181½	26	13	13	23.70	26	26	26	26
" 8th "	G. H. Ashman, B.A., B.Paed.	"	2,500	186½	32	11	21	31.13	32	32	32	32
					194	85	109		194	194	194	194
New Westminster: Duke of Connaught, 1st Div.	D. W. Campbell, B.A.	"	2,500	182	38	11	27	33.79	38	38	38	38
" 2nd "	E. R. McMillan, M.A.	"	2,630	182	18	9	9	15.34	18	18	18	18
" 3rd "	H. I. Spurr, M.A.	"	2,630	182	24	13	11	23.45	24	24	24	24
" 4th "	R. A. Little, B.A. (Principal)	"	3,000	177	41	17	24	33.37	41	41	41	41
" 5th "	D. L. Milne, B.A.	"	2,060	177	34	13	21	29.51	34	34	34	34
" 6th "	E. H. Lock, B.A.	"	2,270	177	31	18	13	24.18	31	31	31	31
" 7th "	Miss F. M. Urquhart, B.A	"	1,820	177	36	20	16	31.09	36	36	36	36
" 8th "	Miss M. A. Brockwell, B.A.	"	1,820	177	37	4	33	29.81	37	37	37	37
" 9th "	Miss J. J. Anderson, B.A.	"	1,600	177	29	9	20	27.50	29	29	29	29
" 10th "	Miss O. M. Switzer, B.A.	"	1,820	177	32	16	16	29.15	32	32	32	32
" 11th "	Miss E. B. Davidson	"	1,820	177	41	23	18	33.17	41	41	41	41
					361	153	208		361	361	361	361
T. J. Trapp Technical, 1st Div.	L. Lambert, B.A.	"	3,000	183	25	25	....	23.80	25	25	25	25
" 2nd "	G. E. Johnson	Temporary	2,000	183	39	39	....	19.61	39	39	39	39
" 3rd "	Miss M. I. McIntosh, B.A.	Academic	1,800	183	38	...	38	29.75	38	38	38	38
" 4th "	W. Nelson	Man. Train	2,400	183	41	9	32	33.06	41	41	41	41
5th "	G. Birtwhistle	Commercial	2,160	183	45	7	38	35.29	45	45	45	45

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

B.—HISTORY, GEOGRAPHY.			C.—MATHEMATICS.				D.—SCIENCE.					E. CLASSICS.		F.	G.—COMMERCIAL.						H.—TECHNICAL.						
Canadian Civics.	General History.	Geography.	Arithmetic.	Algebra.	Geometry.	Trigonometry.	Chemistry.	Physics.	Agriculture.	Physiology.	Botany.	Latin.	French.	Drawing.	Book-keeping.	Stenography.	Typewriting.	Business Forms and Laws of Business.	Economics.	Statute Law.	Woodwork.	Domestic Science.	Magnetism and Electricity.	Drafting.	Mechanics.	Metalwork.	Machine, Shopwork.
....	18	18	18	18	18	...	1	17	...	...	5	12	18	....	...	...	...	...	...	...	...	...	...	...	...	...	...
....	30	30	....	30	30	...	....	30	19	...	30	11	30	....	...	...	...	...	...	...	15	15	....	...	...	...	...
36	...	....	36	36	36	...	....	....	23	...	....	13	36	36	...	...	...	...	...	...	14	22	....	...	...	...	...
36	48	48	54	84	84	...	1	47	42	...	35	36	84	36	...	...	...	...	...	...	29	37	....	...	...	...	...
....	11	11	11	19	19	...	....	8	...	...	19	19	19	....	...	...	...	...	...	...	1	7	....	...	...	...	...
18	...	....	18	18	18	...	....	....	...	...	....	18	18	18	...	...	...	...	...	...	7	11	....	...	...	...	...
18	11	11	29	37	37	...	....	8	...	...	19	37	37	18	...	...	...	...	...	...	8	18	....	...	...	...	...
....	17	17	17	27	27	...	27	14	...	...	24	27	13	....	...	...	...	...	...	...	5	5	....	...	...	...	...
22	...	....	22	22	22	...	....	....	...	...	....	22	22	22	...	...	...	...	...	...	....	....	....	...	...	...	...
13	..	....	21	....	....	...	...	....	...	...	....	....	....	....	21	21	21	21	...	...	4	9	....	...	...	...	...
35	17	17	60	49	49	...	27	14	...	...	24	49	35	22	21	21	21	21	...	..	9	14	....	...	...	...	...
...	10	10	10	22	22	...	22	10	10	...	11	2	22	....	...	...	...	...	...	...	....	....	....	...	...	...	...
15	...	...	15	15	15	...	15	15	...	...	....	....	15	15	...	...	...	...	...	...	....	....	....	...	...	...	...
15	10	10	25	37	37	...	37	25	10	...	11	2	37	15	...	...	...	...	...	...	....	....	....	...	...	...	...
....	3	3	3	9	9	...	9	2	...	...	9	3	6	....	...	...	...	...	...	...	7	....	....	...	...	...	...
21	...	....	21	21	21	...	....	....	...	...	....	21	21	21	...	...	...	...	...	...	8	....	....	...	...	...	...
21	3	3	24	30	30	...	9	2	...	...	9	29	27	21	...	...	...	...	...	...	15	....	....	...	...	...	...
....	6	6	6	12	12	...	12	2	...	...	8	11	11	....	...	...	...	...	...	...	....	....	....	...	...	...	...
11	...	....	11	11	11	...	....	....	...	...	....	11	11	11	...	...	...	...	...	...	..	....	....	...	...	...	...
11	6	6	17	23	23	...	12	2	...	...	8	22	22	11	...	...	...	...	...	...	....	....	...	...	...	...	...
....	12	12	12	12	12	...	12	....	...	...	....	12	12	....	...	...	...	...	...	...	....	....	....	...	...	...	...
....	...	....	....	15	15	...	15	1	...	...	15	14	15	....	...	...	...	...	...	...	8	7	....	...	...	...	...
27	...	....	27	27	27	...	....	....	...	...	....	27	27	27	...	...	...	...	...	...	13	14	....	...	...	...	...
27	12	12	39	54	54	...	27	1	...	...	15	53	54	27	...	...	...	...	...	...	21	21	....	...	...	...	...
....	23	23	23	23	23	...	23	1	...	...	1	23	22	....	...	...	...	...	...	...	....	....	....	...	...	...	...
....	...	....	....	41	41	...	41	2	...	...	41	40	40	..	...	...	...	...	...	...	....	....	....	...	...	...	...
40	...	....	40	40	40	...	....	....	...	...	....	40	40	40	...	...	...	...	...	...	....	....	....	...	...	...	...
39	...	...	39	39	39	...	....	....	...	...	....	39	39	39	...	...	...	...	...	...	....	....	....	...	...	...	...
79	23	23	102	143	143	...	64	3	...	...	42	142	141	79	...	...	...	...	...	...	....	....	....	...	...	...	...
....	6	6	....	6	6	6	3	6	...	...	....	5	5	....	...	...	...	...	...	...	....	....	....	...	...	...	...
....	32	32	32	32	32	...	30	16	...	...	15	19	31	....	...	...	...	...	...	...	....	....	....	...	...	...	...
....	19	19	19	19	19	...	19	11	...	...	11	9	18	....	...	...	...	...	...	...	....	....	....	...	...	...	...
....	....	....	....	23	23	...	17	6	...	...	23	23	23	....	...	...	...	...	...	...	....	....	....	...	...	...	...
....	....	....	....	27	27	...	27	27	...	...	27	1	26	....	...	...	...	...	...	...	....	....	....	...	...	...	...
29	....	....	29	29	29	...	....	....	...	...	....	29	29	29	...	...	...	...	...	...	9	20	....	...	...	...	...
26	..	....	26	26	26	...	26	26	...	...	....	....	26	26	...	...	...	...	...	...	13	13	....	...	...	...	...
17	...	....	32	....	....	...	....	....	...	...	....	....	....	....	32	32	32	32	6	6	....	....	....	...	...	...	...
72	57	57	138	162	162	6	122	92	...	...	76	86	158	55	32	32	32	32	6	6	22	33	....	...	...	...	...
....	38	38	38	38	38	...	38	....	...	...	....	38	38	...	...	...	...	...	...	...	....	....	....	...	...	...	...
....	18	18	18	18	18	...	18	18	...	...	18	....	18	...	...	...	...	...	...	...	....	....	....	...	...	...	...
....	24	24	24	24	24	...	24	17	...	...	17	24	9	...	...	...	...	...	...	...	....	....	....	...	...	...	...
....	....	....	....	41	41	...	41	....	...	...	41	41	41	....	...	...	...	...	...	...	....	....	....	...	...	...	...
....	....	....	....	34	34	...	34	34	...	...	34	....	34	....	...	...	...	...	...	...	....	....	....	...	...	...	...
....	....	....	....	31	31	...	....	31	31	...	31	3	28	....	...	...	...	...	...	...	....	....	....	...	...	...	...
....	....	....	....	36	36	...	36	23	...	...	36	36	13	....	...	...	...	...	...	...	....	....	....	...	...	...	...
37	...	....	37	37	37	...	....	....	...	...	....	37	37	37	...	...	...	...	...	...	....	....	....	...	...	...	...
29	...	....	29	29	29	...	....	....	...	...	....	29	29	29	...	...	...	...	...	...	9	20	....	...	...	...	...
32	...	....	32	32	32	...	32	32	...	...	....	....	32	32	...	...	...	...	...	...	16	16	....	...	...	...	...
41	...	....	41	41	41	...	41	41	...	...	....	41	....	41	...	...	...	...	...	...	....	....	....	...	...	...	...
139	80	80	219	361	361	...	264	196	31	...	177	249	279	139	...	...	...	...	...	...	25	36	....	...	...	...	...
25	...	....	25	25	25	...	....	25	...	...	....	....	25	....	...	...	...	25	...	...	25	....	...	25	25	25	...
39	...	....	39	39	39	...	...	39	...	...	....	....	39	....	...	...	...	39	...	.	39	....	....	39	39	39	...
38	...	....	38	....	....	...	....	....	...	...	....	....	38	....	38	38	38	38	...	...	....	38	....	....	....	....	...
41	...	....	41	...	...	...	....	....	...	...	....	....	41	....	41	41	41	41	...	...	....	28	....	...	...	...	...
....	...	....	45	....	...	...	....	....	...	...	....	....	45	....	45	45	45	45	...	...	....	....	....	...	...	...	...

HIGH SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE	Salary (Year).	Days School was in Session.	Enrolment.	Boys.	Girls.	Average Daily Attendance.	A.—ENGLISH. Reading.	Writing & Spelling.	Comp. and Rhetoric.	English Literature.
New Westminster—*Con.*			$									
T. J. Trapp Technical, 6th Div.	Miss F. Eickhoff	2nd Class	1,450	183	19	19	....	11.90	19	19	19	19
" 7th "	Miss M. J. Govenlock	Dom. Science.	1,800	183	21	....	21	14.56	21	21	21	21
					228	99	129	.....	228	228	228	228
Oak Bay, Principal	H. P. Hope, B.A.	Academic	3,500	....	....	....	....	.....	....	....	....	....
" 1st Div.	Miss C. N. Burridge, B.A.	"	2,075	188	23	12	11	19.90	23	23	23	23
" 2nd "	Miss G. Maxwell, B.A.	"	2,300	188	39	23	16	31.64	39	39	39	39
" 3rd "	G. Downes, B.Sc.	"	3,000	188	44	22	22	40.57	44	44	44	44
					106	57	49	.....	106	106	106	106
Peachland	G. P. Black, M.A.	"	1,800	183	17	7	10	13.04	17	17	17	17
Penticton, 1st Div.	L. J. Miller, M.A.	"	2,500	187	33	8	25	30.09	33	33	33	33
" 2nd "	L. B. Boggs, B.A.	"	2,000	182	36	19	17	30.72	36	36	36	36
					69	27	42	.....	69	69	69	69
Point Grey:												
King George V., 1st Div.	A. Bowles, B.A	"	3,651	187	34	13	21	29.88	34	34	34	34
" 2nd "	E. T. Oliver, B.A.	"	2,316	182	23	10	13	21.66	23	23	23	23
" 3rd "	F. M. Watts, B.Sc.	"	2,555	182	21	13	8	16.78	21	21	21	21
" 4th "	W. H. Fenton	Commercial	2,700	182	15	3	12	13.19	15	15	15	15
" 5th "	Miss C. G. Campbell, B.A.	Academic	2,430	182	18	1	17	14.01	18	18	18	18
" 6th "	W. J. Lloyd, B.A	"	2,460	182	28	25	3	24.84	28	28	28	28
" 7th "	W. H. Morrow, M.A.	"	3,036	182	44	7	37	38.57	44	44	44	44
					183	72	111	.....	183	183	183	183
Prince of Wales, 1st Div.	E. A. Munro, B.A.	"	3,568	187	35	18	17	27.69	35	35	35	35
" 2nd "	H. N. MacCorkindale, B.A.	"	2,700	182	35	18	17	31.10	35	35	35	35
" 3rd "	A. H. Taylor, M.A.	"	2,250	182	56	29	27	47.21	56	56	56	56
" 4th "	B. Round, B.A.	"	2,250	182	21	14	7	16.62	21	21	21	21
					147	79	68	.....	147	147	147	147
Port Alberni	Miss N. E. Wallace, B.A.	"	1,450	180	17	4	13	13.91	17	17	17	17
Prince George	Mrs. W. L. Martin, B.A.	"	2,350	178	25	11	14	18.27	25	25	25	25
Prince Rupert, 1st Div.	J. C. Brady	"	3,553	188½	14	4	10	13.19	14	14	14	14
" 2nd "	Miss B. Macdonald, B.A.	"	2,242	188½	30	12	18	26.84	30	30	30	30
" 3rd "	Miss M. V. McLenaghen, B.A.	"	2,380	188½	37	16	21	28.62	37	37	37	37
					81	32	49	.....	81	81	81	81
Revelstoke, 1st Div.	C. G. Connor	"	2,450	189	29	16	13	24.75	29	29	29	29
" 2nd "	Miss A. W. Eaton, B.A.	"	2,000	189	26	21	5	23.46	26	26	26	26
" 3rd "	Miss E. M. Hetherington	Temporary	1,650	189	30	8	22	24.89	30	30	28	28
" 4th "	Miss E. Appleyard, B.A.	Academic	1,700	189	40	20	20	34.50	40	40	40	40
					125	65	60	.....	125	125	123	123
Rossland, 1st Div.	R. Massey, B.A	"	2,000	184	10	4	6	8.55	10	10	10	10
" 2nd "	W. T. Reid	"	1,800	184	17	3	14	14.38	17	17	17	17
" 3rd "	Miss T. A. Pollock, B.A	"	1,800	184	48	22	26	43.95	48	48	48	48
					75	29	46	.....	75	75	75	75
Salmon Arm, 1st Div.	Miss O. E. Cousins, B.A.	"	1,800	189	26	10	16	20.18	26	26	26	26
" 2nd "	Miss W. McGill, B.A.	"	1,500	182½	17	6	11	14.64	17	17	17	17
					43	16	27	.....	43	43	43	43
Slocan	R. G. Dunbar, B.A.	"	1,800	183½	12	4	8	9.05	12	12	12	12
Summerland, 1st Div.	D. J. Welsh, B.A.	"	2,400	180	37	20	17	31.29	37	37	37	37
" 2nd "	P. C. Tees, B.A.	"	2,000	180	25	14	11	18.18	25	25	25	25
					62	34	28	....	62	62	62	62
Surrey, 1st Div.	R. H. Girling, B.A.	"	1,750	185	23	7	16	17.09	23	23	23	23
" 2nd "	Miss M. H. Pennington, B.A.	"	1,300	182	19	7	12	15.98	19	19	19	19
					42	14	28	.....	42	42	42	42

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

B.—History Geography			C.—Mathematics.				D.—Science.					E Classics.		F.	G.—Commercial.						H.—Technical.						
Canadian Civics.	General History.	Geography.	Arithmetic.	Algebra.	Geometry.	Trigonometry.	Chemistry.	Physics.	Agriculture.	Physiology.	Botany.	Latin.	French.	Drawing.	Book-keeping.	Stenography.	Typewriting.	Business Forms and Laws of Business.	Economics.	Statute Law.	Woodwork.	Domestic Science.	Magnetism and Electricity.	Drafting.	Mechanics.	Metalwork.	Machine, Shopwork.
19	...	....	19	....	....	...	....	....	...	....	....	....	....	....	...	...	...	....	...	...	19	....	....	19	...	19	...
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162	...	....	228	85	64	...	....	85	...	21	....	....	208	21	124	124	124	188	...	...	83	87	...	83	64	83	...
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1	22	22	22	22	22	2	20	7	...	...	7	15	22	....	...	1	1	....	...	...	...	....	....	...	...	...	...
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44	...	....	44	44	44	...	17	17	...	...	....	27	44	44	...	...	...	....	...	...	....	....	....	...	...	...	...
45	53	53	66	105	105	2	76	40	...	...	46	66	105	44	...	1	1	....	...	...	....	....	....	...	...	...	...
8	3	3	11	17	17	...	9	...	...	...	6	17	15	8	...	...	...	....	...	...	....	...	....	...	...	...	...
...	12	12	12	33	33	...	33	10	...	...	24	26	33	....	...	...	...	....	...	...	8	8	....	...	...	...	...
36	...	....	36	36	36	...	36	36	...	...	....	20	36	36	...	...	...	....	...	...	19	17	....	...	...	...	...
36	12	12	48	69	69	...	69	46	...	...	24	46	69	36	...	...	...	....	...	...	27	25	....	...	...	...	...
....	34	34	34	34	34	...	34	15	...	...	15	19	33	....	...	...	...	....	...	...	....	....	....	...	...	...	...
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....	...	....	15	9	....	...	....	....	...	...	....	....	....	....	15	15	15	15	...	...	3	10	....	...	...	...	...
18	...	....	18	....	....	...	....	....	...	...	....	....	....	....	18	18	18	18	...	...	....	17	....	..	...	...	...
28	...	....	28	28	28	...	28	28	...	...	....	2	26	28	...	...	...	....	...	...	25	....	....	...	...	...	...
44	...	...	44	44	44	...	....	....	...	...	....	44	44	44	...	...	...	....	...	...	7	37	....	...	...	...	...
90	78	78	139	159	150	...	106	64	...	...	59	94	141	72	33	33	33	33	...	...	43	67	....	...	...	...	...
...	35	35	35	35	35	...	35	11	...	..	10	28	32	....	...	...	...	....	...	...	....	....	....	...	..	...	...
....	35	35	...	35	35	...	35	7	...	...	35	29	34	....	...	...	...	....	...	...	18	17	....	...	...	...	...
56	...	...	56	56	56	...	....	....	...	...	....	56	56	56	...	...	...	....	...	...	29	27	....	...	...	...	...
21	...	...	21	21	21	...	21	21	...	...	....	...	21	21	...	...	...	....	...	...	14	7	....	...	...	...	...
77	70	70	112	147	147	...	91	39	...	...	45	113	143	77	...	...	...	....	...	...	61	51	....	...	...	...	...
8	1	1	9	17	17	...	9	1	...	...	8	16	17	8	...	...	...	....	...	...	....	....	....	...	...	...	...
9	4	4	13	25	25	...	5	12	...	12	12	24	25	9	...	...	...	....	...	...	...	....	....	...	...	...	...
....	14	14	13	14	14	1	14	5	...	...	5	9	14	....	...	...	...	....	...	...	....	....	....	...	...	...	...
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37	...	...	37	37	37	...	18	18	...	...	....	22	25	....	...	...	...	....	...	...	16	21	....	...	...	...	...
37	14	14	50	81	81	1	32	53	...	...	35	60	69	....	...	...	...	....	...	...	26	40	....	...	...	...	...
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40	...	....	40	40	40	...	20	20	...	..	....	20	29	40	...	...	...	....	...	...	....	....	....	...	...	...	...
40	29	29	69	123	95	...	41	49	...	...	31	59	76	40	28	30	30	28	...	...	....	....	..	...	...	...	...
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48	...	....	48	48	48	...	....	....	...	...	....	48	48	48	...	...	...	....	...	...	22	26	....	...	...	...	...
48	10	10	58	75	75	...	27	....	...	...	17	75	75	48	...	...	...	....	...	...	25	40	....	...	...	...	...
....	9	9	9	26	26	...	26	26	...	...	26	4	22	....	...	...	...	....	...	...	....	....	....	...	...	...	...
17	...	...	17	17	17	...	17	17	...	...	....	....	17	17	...	...	...	....	...	...	....	....	....	...	...	...	...
17	9	9	26	43	43	...	43	43	...	...	26	4	39	17	...	...	...	....	...	...	....	....	....	...	...	...	...
12	...	....	12	12	12	...	3	3	...	...	....	9	6	9	...	...	...	....	...	...	....	....	....	...	...	...	...
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25	...	....	25	25	25	...	25	....	...	...	....	25	25	25	...	...	...	....	...	...	14	....	....	...	...	...	...
25	14	14	39	62	62	...	62	36	...	...	36	35	62	25	...	...	...	....	...	...	34	....	....	...	...	...	...
....	9	9	9	23	23	...	17	6	...	...	21	3	22	....	...	...	...	....	...	...	....	....	....	...	...	...	...
19	...	....	19	19	19	...	19	19	...	...	....	3	19	19	...	...	...	....	...	...	....	....	....	...	...	...	...
19	9	9	28	42	42	...	36	25	...	...	21	6	41	19	...	...	...	....	...	...	....	....	....	...	...	...	...

HIGH SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Salary (Year).	Days School was in Session.	Enrolment.	Boys.	Girls.	Average Daily Attendance.	A.—ENGLISH. Reading.	Writing & Spelling.	Comp. and Rhetoric.	English Literature.
			$									
Trail, 1st Div.	Miss H. McArthur, B.A.	Academic	1,860	189	11	4	7	8.32	11	11	11	11
" 2nd "	Miss O. M. Orr, B.A.	"	1,620	189	23	7	16	21.46	23	23	23	23
" 3rd "	Miss N. C. Lingle, B.A.	"	1,620	189	28	10	18	20.64	28	28	28	28
					62	21	41		62	62	62	62
Vancouver:												
Britannia, Principal	J. T. Dunning, M.A.	"	3,400									
" 1st Div.	Miss M. E. Grenfell, B.A.	"	2,730	186	26	6	20	23.44	26	26	26	26
" 2nd "	W. J. Fee, M.A.	"	3,010	186	25	7	18	21.86	25	25	25	25
" 3rd "	F. J. Meyers, B.A.	"	3,150	181	33	17	16	30.05	33	33	33	33
" 4th "	G. MacKay, M.A.	"	3,010	181	36	16	20	34.07	36	36	36	36
" 5th "	W. Putnam, B.Sc.	"	2,730	181	29	13	16	26.11	29	29	29	29
" 6th "	W. E. Evans, B.A.	"	2,870	181	36	8	28	28.69	36	36	35	35
" 7th "	L. W. Taylor, B.A.	"	3,150	181	33	7	26	26.10	33	33	33	33
" 8th "	Miss M. McNiven, B.A.	"	2,450	181	33	16	17	30.41	33	33	33	33
" 9th "	J. Gordon, M.A.	"	2,170	181	38	14	24	36.30	38	38	38	38
" 10th "	A. D. Banting, B.A.	"	2,870	181	37	15	22	31.70	37	37	37	37
" 11th "	A. R. Evans, M.A.	"	2,712	181	32	10	22	30.48	32	32	32	32
" 12th "	Miss K. Macdiarmid, B.A.	"	2,310	181	34	12	22	25.58	34	34	34	34
" 13th "	Miss C. McNiven, B.A.	"	2,730	181	36	8	28	30.75	36	36	36	36
" 14th "	Miss L. B. W. Browne, M.A.	"	2,310	181	36	7	29	33.04	36	36	36	36
" 15th "	W. I. Abercrombie, B.A.	"	2,030	181	43	10	33	33.54	43	43	43	43
					507	166	341		507	507	506	506
King Edward, Principal	G. A. Fergusson, B.A.	"	3,705									
" Vice-principal	R.W. Suter, B.A. B.Sc.	"	3,300									
" 1st Div.	Miss G. D. Burris, M.A.	"	2,730	185	33	6	27	29.43	33	33	33	33
" 2nd "	J. Marr, M.A.	"	3,010	185	33	12	21	28.60	33	33	33	33
" 3rd "	A. W. Ross, M.A.	"	3,010	185	35	19	16	28.97	35	35	35	35
" 4th "	J. H. Hall, B. Litt.	"	3,010	185	33	22	11	30.12	33	33	33	33
" 5th "	Mrs. I. Abel	Dressmaking	1,850	185	7		7	6.47	7	7	7	7
" 6th "	W. Woods, B.A.	Academic	3,010	180	18	8	10	12.05	18	18	18	18
" 7th "	Miss C. A. Cameron, M.A.	"	2,730	180	28	10	18	27.52	28	28	28	28
" 8th "	H. Chodat, M.A.	"	3,150	180	32	9	23	28.64	32	32	32	32
" 9th "	W. Y. McLeish, B.Sc.	"	2,310	180	37	18	19	31.80	37	37	37	37
" 10th "	C. F. Connor, M.A.	"	2,590	180	34	15	19	28.02	34	34	34	34
" 11th "	Miss M. A. Chesley, B.A., B.Sc.	"	2,030	180	24		24	18.73	24	24	24	24
" 12th "	D. Ogilvie, M.A.	"	2,730	180	38	11	27	36.58	38	38	38	38
" 13th "	W. E. Grant, B.A.	"	2,590	180	43	13	30	33.68	43	43	43	43
" 14th "	Miss A. E. Fraser, B.A.	"	2,590	180	42	17	25	38.19	42	42	42	42
" 15th "	A. W. Vining, M.A., D. Un. Paris	"	3,010	180	43	15	28	36.00	43	43	43	43
" 16th "	W. G. Armstrong, M.A.	"	3,010	180	42	30	12	36.72	42	42	42	42
" 17th "	Miss K. H. McQueen, B.A.	"	2,730	180	40		40	34.42	40	40	40	40
					562	205	357		562	562	562	562
King George, 1st Div.	D. B. Johnstone, B.A.	"	3,400	186	37	20	17	33.77	37	37	37	37
" 2nd "	B. J. Wood, M.A., B.Sc.	"	3,150	186	23	23		22.11	23	23	23	23
" 3rd "	T. H. Roberts, B.A.	"	3,010	186	33	14	19	30.99	33	33	33	33
" 4th "	Miss E. B. Bell, M.A.	"	2,730	181	26	13	13	24.77	26	26	26	26
" 5th "	J. R. Sanderson, M.A., Ph. D.	"	2,870	181	27	9	18	24.67	27	27	27	27
" 6th "	S. F. M. Moodie, B.A.	"	2,870	181	26	9	17	24.04	26	26	26	26
" 7th "	Mrs. F. A. Coombs, B.A.	"	2,590	181	25	10	15	23.50	25	25	25	25
" 8th "	C. H. Corkum, B.A.	"	2,450	181	35	24	11	26.53	35	35	35	35
" 9th "	Miss A. Creelman, B.A.	"	2,170	181	39	15	24	34.83	39	39	39	39
" 10th "	G. W. Clark, M.A.	"	2,870	181	36	19	17	26.80	36	36	36	36
" 11th "	Miss S. St. Clair Caldwell, B.A.	"	2,170	181	38	13	25	29.20	38	38	38	38
" 12th "	G. S. Selman, B.A.	"	2,590	181	44	16	28	35.53	44	44	44	44
" 13th "	L. V. Rogers, B.A.	"	2,450	181	44	30	14	37.83	44	44	44	44
" 14th "	A. B. Morrison, B.A.	"	2,310	115½	24	10	14	21.58	24	24	24	24
					457	225	232		457	457	457	457
Kitsilano, 1st Div.	A. Sutherland, M.A.	"	2,590	181	35	14	21	30.99	35	35	35	35
" 2nd "	G. W. MacKenzie, B.A.	"	2,730	181	27	8	19	26.74	27	27	27	27
" 3rd "	A. E. Morrow, B.A.	"	2,590	181	43	18	25	36.82	43	43	43	43
" 4th "	T. G. Bragg	"	2,730	181	38	12	26	34.43	38	38	38	38
" 5th "	G. J. McAdam, M.A.	"	3,010	181	29	15	14	25.09	29	29	29	29
" 6th "	Miss M. E. Dewis, B.A.	"	2,170	181	44	11	33	40.08	44	44	44	44
" 7th "	D. C. Little, B.A. (Principal)	"	3,300	181	42	18	24	40.72	42	42	42	42
" 8th "	Miss W. F. MacKenzie, B.A.	"	2,590	181	42	26	16	34.66	42	42	42	42
					300	122	178		300	300	300	300

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

B.—HISTORY, GEOGRAPHY.			C.—MATHEMATICS.				D.—SCIENCE.					E. CLASSICS.		F.	G.—COMMERCIAL.						H.—TECHNICAL.						
Canadian Civics.	General History.	Geography.	Arithmetic.	Algebra.	Geometry.	Trigonometry.	Chemistry.	Physics.	Agriculture.	Physiology.	Botany.	Latin.	French.	Drawing.	Book-keeping.	Stenography.	Typewriting.	Business Forms and Laws of Business.	Economics.	Statute Law.	Woodwork.	Domestic Science.	Magnetism and Electricity.	Drafting.	Mechanics.	Metalwork.	Machine, Shopwork.
....	11	11	11	11	11	...	11	....	...	...	....	11	11	....	...	...	..	....	...	...	....	....	...	...	..	...	...
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28	11	11	39	62	62	...	34	6	...	..	23	57	61	28	...	...	...	....	...	...	7	....	....	...	...	...	...
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....	33	33	....	33	33	...	33	....	...	...	33	33	33	....	...	...	...	....	...	...	17	16	....	....	....	....	...
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33	...	....	33	33	33	...	....	....	...	...	....	33	33	33	...	...	...	....	...	...	16	17	....	....	....	....	...
38	...	....	38	38	38	...	....	....	...	...	....	38	38	38	...	...	...	....	...	...	14	24	....	....	....	....	...
37	...	....	37	37	37	...	....	....	...	...	....	37	37	37	...	...	...	....	...	...	15	22	....	....	....	....	...
32	...	....	32	32	32	...	....	....	...	...	....	32	32	32	...	...	...	....	...	...	10	22	....	....	....	....	...
34	...	....	34	34	34	...	....	....	...	...	....	34	34	34	...	...	...	....	...	...	12	22	....	....	....	....	...
36	...	....	36	....	....	...	....	....	...	...	....	....	....	....	36	36	36	....	...	...	8	28	....	....	....	....	...
36	...	....	36	....	....	...	....	....	...	...	....	....	....	....	36	36	36	....	...	...	7	29	....	....	....	....	...
43	...	....	43	....	....	...	....	....	...	...	....	....	....	....	43	43	43	....	...	...	10	33	....	....	....	....	...
289	149	211	408	324	323	...	137	....	...	...	98	324	323	174	183	183	183	68	6	6	138	249	....	...	...	...	...
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...	33	33	33	33	33	...	33	....	...	...	....	33	33	....	...	...	...	....	...	...	....	....	....	....	....	....	...
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38	...	....	38	38	38	...	....	....	...	....	....	38	38	38	...	...	...	....	...	...	....	27	....	....	....	....	...
43	...	....	43	43	43	...	....	....	...	....	....	43	43	43	...	...	...	....	...	...	....	30	....	....	....	....	...
42	...	....	42	42	42	...	....	....	...	....	....	42	42	42	...	...	...	....	...	...	....	25	....	....	....	....	...
43	...	....	43	43	43	...	26	26	...	....	....	17	43	43	...	...	...	....	...	...	....	28	....	....	....	....	...
42	...	....	42	42	42	...	42	42	...	....	....	22	20	42	...	...	...	....	...	...	....	12	....	....	....	....	...
40	...	....	40	40	....	...	....	40	...	40	....	13	27	40	...	...	...	....	...	...	....	40	....	....	....	....	...
248	141	141	406	562	490	...	376	222	...	71	223	380	497	279	...	...	...	....	...	...	....	282	....	...	...	...	...
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39	...	....	39	39	39	...	....	....	...	...	....	39	39	39	...	...	...	....	...	...	15	24	....	....	....	....	...
36	...	....	36	36	36	...	26	26	...	...	....	36	10	36	...	...	...	....	...	...	19	17	....	....	....	....	...
38	...	....	38	38	38	...	....	....	...	...	....	38	38	38	...	...	...	....	...	...	13	25	....	....	....	....	...
44	...	....	44	44	44	...	....	....	...	...	....	44	44	44	...	...	...	....	...	...	16	26	....	....	....	....	...
44	...	....	44	44	44	...	44	44	...	...	....	....	44	44	...	...	...	....	...	...	30	14	....	....	....	....	...
....	24	24	24	24	24	...	24	24	...	...	24	17	7	....	...	...	...	....	...	...	....	....	....	....	....	....	...
201	117	117	318	457	457	..	153	325	...	...	186	390	372	201	...	...	...	....	...	...	158	180	....	...	...	...	...
...	35	35	35	35	35	...	21	...	...	...	....	35	35	....	...	...	...	....	...	...	....	....	....	....	....	....	...
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....	62	62	190	300	300	...	170	20	...	...	110	286	294	128	...	...	...	....	...	...	...	....	....	....	....	....	...

HIGH SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Salary (Year).	Days School was in Session.	Enrolment.	Boys.	Girls.	Average Daily Attendance.	A.—ENGLISH. Reading.	Writing & Spelling.	Comp. and Rhetoric.	English Literature.
Vancouver—*Continued.*			$									
Cecil Rhodes School of Commerce, 1st Div.	W. K. Beech, M.A., B.Paed.	Academic	3,300	186	25	1	24	20.15	25	25	25	25
" 2nd "	Miss C. M. Bridgman	Commercial	2,730	181	43	10	33	35.15	43	43	43	43
" 3rd "	Miss A. E. L. Whelen	"	1,890	181	40	....	40	35.82	40	40	40	40
" 4th "	Miss M. Jones	"	1,890	181	41	23	18	36.75	41	41	41	41
" 5th "	Miss E. D. MacQueen, B.A.	Academic	2,730	181	46	....	46	35.47	46	46	46	46
" 6th "	Miss E. D. M. Lamb, B.A.	"	1,890	181	40	....	40	36.02	40	40	40	40
					235	34	201	.....	235	235	235	235
Technical, Principal	J. G. Lister	Man. Train	3,300	....	....	....	....	.....	....	....	....	....
" 1st Div.	M. B. Saunders	Academic	3,010	185	14	14	....	10.29	14	14	10	10
" 2nd "	A. D. Hotchkiss, M.A.	"	2,450	185	31	31	....	25.20	31	31	31	31
" 3rd "	A. B. Tait, M.A.	"	2,730	180	24	24	....	20.79	24	24	24	24
" 4th "	S. L. Miller, B.A.	"	3,010	180	29	29	....	25.19	29	29	29	29
" 5th "	J. G. Sinclair	"	3,150	180	34	34	....	25.39	34	34	34	34
" 6th "	E. W. Parker	Man. Train	2,590	180	38	38	....	32.84	38	38	38	38
" 7th "	A. B. Maggs, A.M.	Academic	3,010	180	35	35	....	32.19	35	35	35	35
" 8th "	W. S. Bell, B.A.	"	2,170	180	35	35	....	30.22	35	35	35	35
" 9th "	D. S. Jackman, M.A.	"	2,450	180	39	39	....	29.27	39	39	39	39
" 10th "	F. Fairey	Man. Train	2,590	180	38	38	....	28.71	38	38	38	38
					317	317	....	.....	317	317	313	313
Vancouver, N. 1st, Div.	J. Y. MacLeod, B.A.	Academic	3,000	188½	24	10	14	20.27	24	24	24	24
" 2nd "	A. J. Mather, B.A.	"	2,500	183½	30	2	28	28.63	30	30	30	30
" 3rd "	Miss C. L. Moule, B.A.	"	2,100	183½	25	24	1	21.44	25	25	25	25
" 4th "	G. B. Benson	"	2,400	183½	38	33	5	34.17	38	38	38	38
" 5th "	Miss E. G. Harrop, B.A.	"	2,040	183½	40	6	34	32.88	40	40	40	40
" 6th "	C. H. Black	Temp. Com	2,100	183½	13	2	11	9.82	13	13	11	11
" 7th "	Miss E. E. Russell, B.A.	Temporary	1,620	183½	36	9	27	31.58	36	36	36	36
					206	86	120	.....	206	206	204	204
Vancouver, S., 1st Div.	J. T. E. Palmer, B.A.	Academic	3,480	187½	38	11	27	37.09	38	38	38	38
" 2nd "	Miss J. J. MacKenzie, M.A.	"	2,640	187½	36	11	25	33.10	36	36	36	36
" 3rd "	W. R. Smith, B.A.	"	2,400	182½	35	13	22	28.98	35	35	35	35
" 4th "	H. W. L. Laffère, B.A.	"	2,520	182½	36	15	21	33.15	36	36	36	36
" 5th "	Miss I. J. McCulloch, M.A.	"	1,800	182½	42	10	32	32.17	42	42	42	42
" 6th "	Miss G. E. Greggs, B.A.	"	1,920	182½	38	16	22	36.60	38	38	38	38
" 7th "	W. S. Ashley, M.A.	"	1,920	182½	41	11	30	35.00	41	41	41	41
" 8th "	G. W. MacKinnon, M.A.	"	2,400	182½	38	13	25	33.27	38	38	38	38
" 9th "	T. C. MacCaughie, M.A.	"	1,800	182½	28	16	12	25.55	28	28	28	28
" 10th "	G. A. Macdonald, B.A.Sc.	"	2,160	182½	43	32	11	37.12	43	43	43	43
" 11th "	F. H. Halstead	Commercial	2,160	187½	18	3	15	15.30	18	18	18	18
" 12th "	Miss L. Simpson, B.A.	Academic	1,800	182½	25	8	17	22.94	25	25	25	25
" 13th "	G. C. Barclay, B.A.	"	1,680	182½	39	8	31	34.06	39	39	39	39
					457	167	290	.....	457	457	457	457
Vernon, 1st Div.	T. H. Calder, M.A.	"	2,700	183	18	4	14	16.35	18	18	18	18
" 2nd "	Miss L. J. Stewart, B.A.	"	2,000	187	30	18	12	24.87	30	30	30	30
" 3rd "	Miss E. J. Yuill, M.A.	"	2,000	183	25	....	25	21.08	25	25	25	25
" 4th "	W. C. Wilson, B.A.	"	2,000	183	24	24	...	22.32	24	24	24	24
					97	46	51	.....	97	97	97	97
Victoria, Principal	A. Robinson, B.A., LL.D.	"	3,250	....	....	....	....	.....	....	....	....	....
" 1st Div.	E. W. Hamilton Smith, M.A.,	"	2,805	187½	41	16	25	35.98	41	41	41	41
" 2nd "	T. W. Cornett, B.A. [B.Sc.	"	2,445	187½	29	11	18	26.00	29	29	29	29
" 3rd "	L. J. Cranston, B.A.	"	2,445	187½	34	15	19	29.19	34	34	34	34
" 4th "	J. A. Armstrong, M.A.	"	2,805	187½	23	13	10	22.68	23	23	23	23
" Section 1, 5th "	I. Dilworth, M.A.	"	2,445	187½	31	23	8	30.91	31	31	31	31
" " 2, 5th "	Miss A. T. Riddell, M.A.	"	2,075	122	27	18	9	26.77	27	27	27	27
" 6th "	F. Andrews, B.A.	"	2,805	187½	35	6	29	32.59	35	35	35	35
" 7th "	Miss A. Macleod, M.A.	"	2,315	187½	35	14	21	31.60	35	35	35	35
" 8th "	Miss M. W. Hamilton, B.A.	"	2,195	187½	36	16	20	28.40	36	36	36	36
" 9th "	E. L. Yeo, B.A.	"	2,205	187½	35	22	13	31.17	35	35	35	35
" 10th "	H. L. Smith, B.A.	"	2,565	187½	35	26	9	31.71	35	35	35	35
" 11th "	(Closed)	"	....	....	....	....	....	.....	....	....	....	....
" 12th "	J. J. McKim	Commercial	1,755	187½	41	4	37	29.85	41	41	20	20
" 13th "	Miss L. A. de W. Moore	"	1,755	187½	21	...	21	20.93	21	21	21	21
" 14th "	C. M. Haverstock, B.A.	Academic	2,325	187½	33	7	26	28.58	33	33	33	33
" 15th "	E. W. Clarke, B.A.	"	2,805	187½	32	6	26	28.06	32	32	32	32

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

B.—HISTORY, GEOGRAPHY.			C.—MATHEMATICS.				D.—SCIENCE.					E. CLASSICS.		F.	G.—COMMERCIAL.						H.—TECHNICAL.						
Canadian Civics.	General History.	Geography.	Arithmetic.	Algebra.	Geometry.	Trigonometry.	Chemistry.	Physics.	Agriculture.	Physiology.	Botany.	Latin.	French.	Drawing.	Book-keeping.	Stenography.	Typewriting.	Business Forms and Laws of Business.	Economics.	Statute Law.	Woodwork.	Domestic Science.	Magnetism and Electricity.	Drafting.	Mechanics.	Metalwork.	Machine, Shopwork.
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127	..	....	235	....	....	...	....	....	...	...	....	....	....	....	235	235	235	108	25	25	....	....	....	...	...	....	...
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38	...	....	38	38	38	...	...	38	...	...	....	....	38	....	...	...	...	38	...	...	38	....	....	38	38	38	38
35	...	....	35	35	35	...	....	35	...	...	....	....	35	....	...	...	...	35	...	...	35	....	....	35	35	35	35
35	...	....	35	35	35	...	....	35	...	...	....	....	35	....	...	...	...	35	...	...	35	....	....	35	35	35	35
39	...	....	39	39	39	...	....	39	...	...	....	....	....	....	...	...	...	39	...	...	39	....	....	39	39	39	39
38	...	....	38	38	38	...	....	38	...	...	....	....	....	....	...	...	...	38	...	...	38	....	....	38	38	38	38
185	10	10	303	317	317	31	128	313	...	...	10	...	142	....	...	...	...	185	...	...	304	....	32	304	304	304	304
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36	...	....	36	....	....	...	....	....	...	...	....	....	....	....	36	36	36	....	...	...	9	27	....	...	...	...	...
114	79	79	149	157	157	...	73	117	...	...	65	104	137	78	47	49	49	11	...	...	72	67	...	...	...	...	...
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38	...	....	38	38	38	...	....	....	...	...	....	38	38	38	...	...	...	...	...	...	16	22	....	...	...	...	...
41	...	....	41	41	41	...	....	....	...	...	....	40	39	41	...	...	...	...	...	...	11	30	....	...	...	...	...
38	...	....	38	38	38	...	....	....	...	...	....	38	38	38	...	...	...	...	...	...	13	25	....	...	...	...	...
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43	...	....	43	43	43	...	43	43	...	...	....	....	43	43	...	...	...	...	...	...	32	11	....	...	...	...	...
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39	...	....	39	....	....	...	....	....	...	...	....	....	....	....	39	39	39	....	...	...	....	....	....	...	...	....	...
241	173	173	358	375	375	...	216	84	...	...	112	290	373	202	82	82	82	43	18	18	148	227	....	...	...	...	...
....	18	18	13	18	18	5	18	7	...	...	..	11	18	....	...	...	...	...	...	...	...	....	....	...	...	....	...
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25	...	....	25	25	25	...	3	3	...	...	....	22	25	25	...	...	...	...	...	...	....	25	....	...	...	...	...
24	...	...	24	24	24	...	19	19	...	...	...	5	24	24	...	...	...	...	...	...	24	....	....	...	...	...	...
49	18	18	62	97	97	5	70	29	13	...	30	55	97	49	...	...	...	...	...	...	42	35	....	...	...	...	...
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....	...	....	....	35	35	...	35	....	16	...	35	19	35	....	...	...	...	...	...	...	...	...	...	...	...	...	...
....	...	....	....	36	36	...	36	....	...	...	34	36	36	....	...	...	...	...	...	...	...	...	...	...	...	...	...
....	...	....	...	35	35	...	35	35	...	...	34	....	35	....	...	...	...	...	...	...	...	...	...	...	...	...	...
....	...	....	....	35	35	...	35	35	...	...	35	....	35	....	...	...	...	...	...	...	...	...	...	...	...	...	...
....	...	....	....	....	....	...	....	....	...	...	....	....	....	....	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	....	20	...	....	...	....	....	...	...	....	....	3	....	27	41	41	20	...	...	...	...	...	...	...	...	...
21	...	....	21	...	....	...	....	....	...	...	....	....	....	....	21	21	21	21	...	...	...	...	...	...	...	...	...
33	...	....	33	33	33	...	....	....	...	...	....	33	33	33	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	....	32	32	32	...	32	32	...	...	....	32	32	32	...	...	...	...	...	...	...	...	...	...	...	...	...

HIGH SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE	Salary (Year).	Days School was in Session.	Enrolment.	Boys.	Girls.	Average Daily Attendance.	A.—ENGLISH.			
									Reading.	Writing & Spelling.	Comp. & Rhetoric.	English Literature.
			$									
Victoria, 16th Div.	Mrs. G. B. Clarke, B.A.....	Academic.....	2,195	187½	33	6	27	28.94	33	33	33	33
" 17th "	W. E. Cooke, B.Sc.....	"	2,205	187½	34	11	23	28.44	34	34	34	34
" 18th "	Miss J. I. Macleod, B.A.....	"	2,195	187½	27	7	20	21.13	27	27	27	27
" 19th "	J. O. Steeves, B.A.....	"	2,445	187½	33	14	19	27.86	33	33	33	33
" 20th "	P. C. Coates, B.Sc.	"	2,205	187½	27	9	18	22.70	27	27	27	27
" 21st "	T. Steward, B.L.....	"	2,325	187½	44	44	....	33.50	44	44	44	44
" 22nd "	J. E. Hamilton, B.A.....	" ...	2,085	187½	38	2	36	32.46	38	38	38	38
" 23rd "	G. E. Richards, B.Sc.....	"	2,085	187½	38	9	29	32.40	38	38	38	38
" 24th "	R. B. Forsyth, B.A...	"	2,445	187½	38	13	25	31.48	38	38	38	38
" 25th "	(Cancelled)	.....	.....	....	....	....	....	.....	.....	.....	.....	.....
" 26th "	T. S. Whittemore, B.A.....	Academic.....	2,205	187½	42	42	....	35.32	42	42	42	42
" 27th "	Miss E. Henry, M.A.....	"	2,435	187½	40	10	30	31.82	40	40	40	40
" 28th "	J. H. Gunn, M.A.....	"	2,085	187½	33	23	10	27.95	33	33	33	33
					915	387	528	.....	915	915	894	894
Grand total for High	Schools, 1920-1921.....	.....			7259	3093	4166	.....	7259	7259	7224	7224
" "	" 1919-1920.....	.....			6636	2826	3810	.....	6636	6636	6582	6565

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

B.—History, Geography.			C.—Mathematics.				D.—Science.					E. Classics.		F.	G.—Commercial.						H.—Technical.						
Canadian Civics.	General History.	Geography.	Arithmetic.	Algebra.	Geometry.	Trigonometry.	Chemistry.	Physics.	Agriculture.	Physiology.	Botany.	Latin.	French.	Drawing.	Book-keeping.	Stenography.	Typewriting.	Business Forms and Laws of Business.	Economics.	Statute Law.	Woodwork.	Domestic Science.	Magnetism and Electricity.	Drafting.	Mechanics.	Metalwork.	Machine, Shopwork.
33	....	....	33	33	33	...	....	....	...	...	....	33	33	33	...	...	...	....	...	..	....	....	....	...	...	...	...
34	....	....	34	34	34	...	....	....	...	...	....	34	34	34	...	...	...	....	...	..	....	....	....	...	...	...	...
27	....	....	27	27	27	...	....	....	...	...	....	27	27	27	...	...	...	....	...	..	....	....	....	...	...	...	...
33	....	....	33	33	33	...	33	33	...	...	....	....	33	33	...	...	...	....	...	..	....	....	....	...	...	...	...
27	....	....	27	27	27	...	27	27	...	...	....	....	27	27	...	...	...	....	...	..	....	....	....	...	...	...	...
44	....	....	44	44	44	...	44	44	...	...	...	....	....	....	...	...	...	....	...	..	44	....	44	44	44	...	...
38	....	....	38	....	...	...	...	....	...	...	....	....	....	....	38	38	38	38	...	..	....	....	....	...	...	...	...
38	...	....	38	...	....	...	....	....	...	...	....	....	....	....	38	38	38	....	...	..	....	....	....	...	...	...	...
38	..	....	38	...	...	...	....	....	...	...	....	....	....	....	38	38	38	....	...	..	....	....	....	...	...	...	...
....	....	....	....	....	....	...	....	....	...	...	....	....	....	....	...	...	...	....	...	..	....	....	....	...	...	...	...
....	....	....	42	42	42	...	....	42	...	...	...	....	42	....	...	...	...	....	...	..	42	...	....	42	42	42	...
40	....	....	40	40	40	..	....	....	...	...	....	40	40	40	...	...	...	....	...	..	....	....	....	...	...	...	...
33	...	....	33	33	33	...	33	33	...	...	....	...	33	33	...	...	...	....	...	..	....	....	...	...	...	...	...
471	185	185	718	739	739	5	530	335	16	...	229	416	698	292	162	176	176	79	...	..	86	....	44	86	86	42	...
3440	1788	1850	5407	6282	6151	61	3479	2735	165	104	2234	4273	5677	2672	976	995	995	809	55	55	1448	1589	76	473	454	429	304
3283	988	1108	3821	5668	5659	178	2416	1965	91	...	1808	4118	5090	2624	938	943	944	517	...	..	1329	1343	....	298	294	209	...

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Alberni, 1st Division	John Howitt	2nd Class	1,200	188	20	8	12	18.57	...	...	....	....	....
" 2nd "	Miss B. M. E. Campbell	3rd "	1,100	188	45	17	28	39.66	....	....	...	23	22
" 3rd "	Miss M. E. Bowing	1st "	900	188	34	20	14	29.43	15	9	10	...	....
					99	45	54	.....	15	9	10	23	22
Armstrong:													
Central, 1st Division	T. Aldworth	1st "	2,250	187	46	21	25	38.28	....	....	....	....	....
" 2nd "	R. K. Bell	1st "	1,600	187	49	24	25	34.49	....	....	....	....	....
" 3rd "	Miss B. M. Johnstone	2nd "	1,200	187	39	17	22	34.61	....	....	....	....	39
" 4th "	R. J. Garner	2nd "	1,200	186	44	21	23	38.47	....	....	....	....	44
" 5th "	Miss T. Lantz	1st "	1,320	186	35	20	15	30.40	....	....	....	....	35
" 6th "	Miss M. Phillips	3rd "	1,080	186	36	16	20	27.08	....	....	....	36	....
" 7th "	Miss V. J. McTavish	3rd "	1,200	186	39	19	20	33.12	....	1	26	12	....
" 8th "	Miss L. G. Fraser	3rd "	1,200	186	34	22	12	28.99	11	23	....	....	....
" 9th "	Mrs. E. P. Dinnock	2nd "	1,440	186	42	24	18	33.76	42	....	....	....	....
" 10th "	Miss L. L. Dedolph	1st "	1,080	117	26	15	11	22.65	26	....	....	....	....
					390	199	191	.....	79	24	26	48	118
Bennett	Miss E. Wilson	2nd "	1,200	183½	22	11	11	17.15	....	4	...	7	8
Hullcar	Miss M. M. S. Taylor	2nd "	1,320	187	34	19	15	25.82	9	1	2	1	15
Knob Hill	Miss M. Brydon	3rd "	1,200	187	23	14	9	22.52	3	....	8	7	5
Larkin	Miss D. G. Dunwoodie	1st "	1,200	186½	43	19	24	31.57	9	....	9	13	9
Otter Lake	Miss A. E. Carlson	2nd "	1,200	186½	24	10	14	13.98	5	3	3	4	8
Pleasant Valley	Miss G. E. Elsey	2nd "	1,200	185	30	11	19	21.09	9	5	....	3	10
Chilliwack, 1st Division	G. S. Wilson	2nd "	1,800	184	36	13	23	30.11	....	....	....	....	....
" 2nd "	J. Eason	2nd "	1,300	174	38	21	17	29.80	....	....	....	....	....
" 3rd "	Miss R. E. Agar	2nd "	1,350	184	32	12	20	25.42	....	....	....	....	....
" 4th "	Miss M. E. Jackson	1st "	1,250	175	37	19	18	30.15	....	....	....	....	37
" 5th "	Miss J. J. Matheson	2nd "	1,200	175	36	24	12	28.99	....	....	....	....	36
" 6th "	Miss G. M. McManus	2nd "	1,000	165	39	22	17	30.64	....	....	....	....	39
" 7th "	Miss M. Johnston	2nd "	1,200	165½	41	23	18	30.98	....	....	....	....	41
" 8th "	Miss C. Johnston	2nd "	1,000	175	41	22	19	36.83	....	....	....	41	....
" 9th "	Miss M. J. Carmichael	2nd "	1,100	175	44	19	25	32.69	....	....	36	8	....
" 10th "	Miss J. B. Thomson	2nd "	1,000	164	50	25	25	35.43	27	23	....	....	....
" 11th "	Miss M. B. Marshall	2nd "	1,250	164	36	24	12	31.79	36	....	....	....	....
					430	224	206	.....	63	23	36	49	153
Courtenay, 1st Division	G. M. Stubbs	1st "	1,320	186½	44	17	27	33.08	....	....	....	....	22
" 2nd "	Miss A. Hildebrand	1st "	1,140	186	41	25	16	33.07	....	....	....	16	25
" 3rd "	Miss F. M. Dougan	1st "	1,020	164½	40	28	12	32.23	40	....	....	....	....
" 4th "	Miss L. L. Carroll	2nd "	1,140	82½	41	20	21	34.48	....	9	14	18	....
					166	90	76	.....	40	9	14	34	47
Cranbrook:													
Central, 1st Division	W. T. Arthurs	1st "	2,250	187	37	17	20	30.94	....	....	....	....	....
" 2nd "	Miss A. Woodland	1st "	1,600	187	41	23	18	37.70	....	....	....	....	....
" 3rd "	Miss M. E. Staples, B.A.	Academic	1,250	188	49	21	28	41.64	....	....	....	....	....
" 4th "	Miss S. D. White	3rd Class	1,288	186	52	28	24	44.51	....	....	....	....	52
" 5th "	Miss M. L. Cartwright	3rd "	1,288	186	49	20	29	42.48	....	....	....	....	49
" 6th "	Miss M. M. Blackenbach	2nd "	1,000	187	47	21	26	45.07	....	....	....	47	....
" 7th "	Mrs. K. H. Douglas	Temporary	1,000	87	28	11	17	25.76	....	....	....	28	....
" 8th "	Miss M. G. Macdonald	1st Class	1,000	187	47	33	14	37.43	....	....	19	28	....
" 9th "	Miss E. B. Paterson	2nd "	1,184	185	47	26	21	37.35	....	28	19	....	....
" 10th "	Miss L. A. Trevarrow	2nd "	1,000	185½	42	21	21	34.92	42	....	....	....	....
" 11th "	Miss C. M. MacKenzie	3rd "	1,250	186½	42	25	17	39.85	42	....	....	....	....
					481	246	235	.....	84	28	38	103	101
Kootenay Orchards	Miss E. E. Wallace	1st "	1,200	187	28	15	13	21.11	2	6	4	2	10
South Ward, 1st Div.	Miss L. C. Eckert	2nd "	1,250	187	48	22	26	36.68	...	....	....	22	26
" 2nd "	Miss H. I. Gregor	3rd "	1,035	187	45	28	17	34.79	26	5	14	....	....
Manual Training Inst.	F. G. Morris	Man. Train.	1,955	....	....	....	....	....	....	....	....	....	....
					93	50	43	.....	26	5	14	22	26
Cumberland:													
Central, 1st Division	C. E. Burbridge	1st Class	1,850	188½	48	21	27	39.08	....	....	....	....	....
" 2nd "	J. G. MacLean	Temporary	1,150	188½	42	16	26	37.59	....	....	....	....	...
" 3rd "	Miss M. E. Beckwith	2nd Class	1,000	188½	43	25	18	36.98	....	....	....	....	43
" 4th "	Miss A. Potter	2nd "	1,000	188½	36	16	20	35.72	....	....	....	....	36
" 5th "	Miss P. Partridge	Academic	950	188½	40	17	23	36.11	....	....	....	....	40
" 6th "	Miss M. C. Bannerman	3rd Class	900	188½	42	19	23	32.96	....	....	....	42	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																							
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
20	...	20	20	20	20	20	20	20	20	20	....	....	.....	....	....	....	....	..	..	1,695 00	2,841 45
....	...	45	45	45	45	45	22	22	....	45	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	34	34	34	34	.....	.....	.....	....	34	...	....	34	....	....	....	....	..	..	.....	.....
20	...	99	99	99	99	65	42	42	20	99	....	....	34	....	....	....	....	..	..	.....	.....
46	...	46	46	46	46	46	46	46	46	46	....	....	46	....	....	....	....	..	..	9,887 50	18,271 18
49	...	49	49	49	49	49	49	49	49	49	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	...	....	44	....	....	....	....	..	..	.....	.....
....	...	35	35	35	35	35	35	35	....	35	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	36	.....	.....	....	36	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	12	.....	.....	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	34	34	34	34	.....	.....	.....	....	34	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	26	26	26	26	.....	.....	.....	....	26	....	....	.....	....	....	....	....	..	..	.....	.....
95	...	390	390	390	390	261	213	213	95	390	....	....	90	....	....	....	....	..	..	.....	.....
3	...	22	22	22	22	18	11	11	3	22	....	....	.....	....	....	....	....	..	..	.....	.....
6	...	34	34	34	34	22	21	21	6	34	....	....	34	....	....	....	....	..	..	.....	.....
..	...	23	23	23	23	12	5	5	....	23	....	....	.....	....	....	....	....	..	..	.....	.....
3	...	43	43	43	43	25	12	12	3	43	....	....	.....	....	....	....	....	..	..	.....	.....
1	...	24	24	24	24	13	9	9	1	24	....	....	.....	....	....	....	....	..	..	.....	.....
3	...	30	30	30	30	16	13	13	3	30	....	....	30	....	....	....	....	..	..	.....	.....
36	...	36	36	36	36	36	36	36	36	36	13	23	.....	....	....	....	....	..	..	7,713 35	21,295 65
38	...	38	38	38	38	38	38	38	38	38	21	17	.....	....	....	....	....	..	..	.....	.....
32	...	32	32	32	32	32	32	32	32	32	12	20	.....	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	37	37	37	....	37	...	18	.....	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	36	36	36	....	36	24	12	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	....	17	.....	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	41	41	41	....	41	...	18	41	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	41	.....	.....	....	41	...	....	41	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	8	.....	.....	....	44	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	50	50	50	50	.....	.....	.....	....	50	....	....	50	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	....	....	36	....	....	....	....	..	..	.....	.....
106	...	430	430	430	430	308	259	259	106	430	70	125	168	....	....	....	....	..	..	.....	.....
22	...	44	44	44	44	44	44	44	22	44	....	....	44	....	....	....	....	..	..	2,542 50	6,683 02
....	...	41	41	41	41	41	25	25	...	41	....	...	41	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	...	....	40	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	18	.....	.....	....	41	....	....	41	....	....	....	....	..	..	.....	.....
22	...	166	166	166	166	103	69	69	22	166	....	....	166	....	....	....	....	..	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	17	....	37	....	....	....	....	..	..	8,926 65	28,334 64
41	...	41	41	41	41	41	41	41	41	41	23	18	41	....	....	....	....	..	..	.....	.....
49	...	49	49	49	49	49	49	49	49	49	21	28	49	....	....	....	....	..	..	.....	.....
....	...	52	52	52	52	52	52	52	....	52	28	24	52	....	....	....	....	..	..	.....	.....
....	...	40	49	49	49	49	49	49	....	49	20	29	49	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	47	.....	.....	....	47	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	28	28	28	28	28	.....	.....	....	28	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	28	.....	.....	....	47	....	...	.....	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
127	...	481	481	481	481	331	228	228	127	481	109	99	312	....	....	....	....	..	..	.....	.....
4	...	28	28	28	29	16	14	14	4	28	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	48	26	26	....	48	14	....	.....	....	....	....	....	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	.....
....	...	93	93	93	93	48	26	26	....	93	14	....	.....	....	....	....	....	..	..	.....	.....
48	...	48	48	48	48	48	48	48	48	48	....	....	.....	....	....	....	....	..	..	14,000 50	14,508 56
42	...	42	42	42	42	42	42	42	42	42	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	...	43	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	36	36	36	...	36	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	40	40	40	....	40	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	42	.....	.....	....	42	....	....	.....	....	....	....	....	..	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Cumberland—*Continued*,			$										
Central, 7th Division..	Miss A. L. Reese.....	2nd Class....	950	144½	41	18	23	37.64	...	....	31	10	....
" 8th " ..	Miss M. E. Coleman....	2nd "	900	144½	42	21	21	33.80	...	4	38	....	....
" 9th " ..	Miss H. Harrison.....	2nd "	950	144½	44	22	22	39.35	...	44	....	....	....
" 10th " ..	Miss J. E. Robertson....	2nd "	970	144½	44	19	25	33.64	....	44	....	....	....
" 11th " ..	Miss H. Watson	2nd "	970	188½	44	29	15	27.41	44	....	....	....	....
" 12th " ..	Mrs. J. C. Barker.....	2nd "	950	117	43	25	18	37.30	....	....	....	....	43
					509	248	261	.....	44	92	69	52	162
Duncan:													
Central, 1st Division..	W. Stacey.....	1st "	1,850	187½	42	18	24	34.89	....	....	....	....	....
" 2nd " ..	Mrs. C. Everett.....	2nd "	1,200	187½	42	20	22	32.46	....	....	....	....	....
" 3rd " ..	E. Kilby	3rd "	1,080	187½	38	19	19	31.33	....	....	....	....	38
" 4th " ..	Miss M. E. Johnson.....	3rd "	1,020	187½	34	16	18	26.56	....	....	....	....	34
" 5th " ..	Miss M. K. Knocker.....	3rd "	840	187½	31	11	20	30.49	....	....	....	....	31
" 6th " ..	Miss M. M. Atherton....	2nd "	900	187½	43	25	18	32.72	13	27	3	....	....
" 7th " ..	Miss L. C. Henderson...	3rd "	960	187½	37	22	15	31.07	37	....	....	....	....
" 8th " ..	Miss E. M. Morten	1st "	960	187	30	17	13	23.81	....	8	14	8	....
" 9th " ..	Miss O. Severs.....	2nd "	900	170½	47	19	28	34.25	....	....	....	47	....
" 10th " ..	Miss K. Arkell.....	2nd "	900	96	37	26	11	32.02	....	....	22	15	....
					381	193	188	.....	50	35	39	70	103
Chemainus, 1st Div...	Miss B. M. Tranfield.....	2nd "	1,200	184½	29	17	12	25.69	....	....	....	....	11
" 2nd " ..	Miss M. Inches.....	2nd "	960	185½	40	30	10	31.74	8	17	9	6	....
					69	47	22	.....	8	17	9	6	11
Crofton.....	Miss G. J. McInnes.....	2nd "	840	187½	36	14	22	24.27	10	1	5	5	9
Genoa Bay.....	Miss C. M. Wollaston....	2nd "	840	186	14	7	7	9.83	4	1	3	1	2
Manual Training Inst..	J. G. Sommerville	Man. Train..	1,200	....	....	.....	.....	.....	...	....	....	....	....
Domestic Science.....	Miss D. Sanders	Dom. Science	1,250	....	....	.....	...	.....	...	....	....	....	....
School Nurse.....	Miss B. E. Hall	.....	1,100	....	...	.....	.....	.....	...	....	....	....	....
Enderby, 1st Division....	Miss M. L. Beattie	2nd Class....	1,600	188	25	14	11	24.56	....	....	....	....	....
" 2nd "	Miss P. D. Faulkner	1st "	1,200	188	42	20	22	38.09	....	....	...	....	42
" 3rd "	Miss L. L. Paradis.....	1st "	900	187½	35	19	16	30.02	....	....	....	23	12
" 4th "	Miss M. L. Woods.....	2nd "	900	187	39	21	18	31.53	....	10	18	11	....
" 5th "	Miss E. M. Ferguson....	3rd "	1,000	165	35	18	17	23.80	35	....	....	....	....
					176	92	84	.....	35	10	18	34	54
Fernie, Principal.....	P. H. Sheffield.....	1st "	2,700	....	....	.....	.....	.....	....	...	....	...	....
" 1st Division.....	H. Smith.....	2nd "	1,200	186	36	19	17	26.97	....	....	....	....	....
" 2nd "	Miss E. M. Hogan.....	1st "	1,620	186	36	21	15	32.75	....	....	....	....	....
" 3rd "	Miss M. M. Anderson ...	2nd "	1,200	186	38	19	19	35.87	...	....	....	....	....
" 4th "	Miss H. M. Herkins. ...	Academic....	1,200	186	36	15	21	29.84	....	....	....	....	....
" 5th "	Miss E. M. McAllister...	3rd Class....	1,200	184	38	19	19	28.84	....	....	....	....	38
" 6th "	Miss E. C. Stott	1st "	1,290	186	34	12	22	31.51	....	....	....	....	34
" 7th "	Miss L. M. Burnham....	2nd "	1,230	185½	34	21	13	29.91	...	....	....	...	34
" 8th "	Miss A. L. Wood	3rd "	1,200	186	39	24	15	35.42	....	....	....	....	39
" 9th "	Miss F. Macdonald	1st "	1,380	182	43	19	24	37.58	....	....	....	....	43
" 10th "	Miss H. A. Dewar.....	3rd "	1,230	185½	43	22	21	38.36	....	...	....	...	43
" 11th "	Miss J. MacDonald.....	2nd "	1,230	184½	43	21	22	35.45	....	....	....	....	43
" 12th "	Miss N. P. Douglas	1st "	1,230	186	47	25	22	38.73	....	....	....	47	....
" 13th "	Miss A. Hartt	1st "	1,380	186	44	26	18	40.03	....	....	....	44	....
" 14th "	Miss N. F. Crocker	1st "	1,380	186	43	30	13	37.37	....	....	....	43	....
" 15th "	Miss F. E. Hamill.....	2nd "	1,290	184½	45	18	27	40.07	....	...	45	....	....
" 16th "	Miss E. L. Nicholson....	3rd "	1,230	184½	36	16	20	29.72	...	36	....	....	....
" 17th "	Miss O. D. Borden	Academic....	1,200	186	35	14	21	31.18	....	....	....	35	....
" 18th "	Miss K. Simmonds	2nd Class....	1,200	186	47	28	19	31.98	47	....	....	....	....
" 19th "	Miss M. Teeple	2nd "	1,200	185	39	15	24	34.42	....	..	...	21	18
" 20th "	Mrs. A. Elley.....	3rd "	1,380	185	42	17	25	30.40	27	8	7	....	....
" 21st "	Miss M. C. Elliott.....	1st "	1,380	184	40	16	24	34.56	1	18	21	....	....
" 22nd "	Miss J. Elliott	1st "	1,380	184	39	28	11	34.92	39	....	....	....	....
" 23rd "	Miss J. Dicken.....	3rd "	1,380	116	38	21	17	31.95	38	....	....	....	....
					915	466	449	.....	152	62	73	190	292
Grand Forks, 1st Division	H. A. Glaspell	1st "	2,000	177	41	15	26	36.93	....	...	....	....	....
" 2nd "	Miss H. McEwen.....	3rd "	1,200	184	48	26	22	40.68	....	....	....	....	....
" 3rd "	Miss M. Harrigan.....	3rd "	1,100	189	43	17	26	36.45	....	...	....	....	43
" 4th "	Miss L. Kidd	1st "	1,100	185	46	26	20	35.13	....	....	....	....	46
" 5th "	Miss B. O'Brien.....	1st "	1,100	187	39	21	18	37.55	...	....	...	....	39
" 6th "	Miss E. M. Stuart.....	1st "	1,000	184	41	17	24	39.24	....	....	....	23	18

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
....	...	41	41	41	41	10	.....	.....	....	41	....	....	.....	....	...	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	...	....	.....	....	....	....	....	..	..	.....	.....
90	...	509	509	509	509	304	252	252	90	509	....	....	129	....	....	....	....	..	..	.....	.....
42	...	42	42	42	42	42	42	42	42	42	18	24	.....	....	....	....	....	..	..	10,400 85	22,958 31
42	...	42	42	42	42	42	42	42	42	42	20	22	.....	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	38	38	38	....	38	19	19	.....	....	....	....	....	..	..	.....	.....
....	...	34	34	34	34	34	34	34	....	34	16	18	.....	....	....	....	....	..	..	.....	.....
....	...	31	31	31	31	31	31	31	....	31	11	20	31	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	...	37	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	30	30	30	30	8	.....	.....	....	30	....	....	30	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	47	.....	.....	....	47	....	....	47	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	15	.....	.....	....	37	....	....	37	....	....	....	....	..	..	.....	.....
84	...	381	381	381	381	257	187	187	84	381	86	103	188	....	....	....	....	..	..	.....	.....
18	...	29	29	29	29	29	29	29	18	29	17	12	.....	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	6	.....	.....	....	40	....	....	.....	....	....	....	....	..	..	.....	.....
18	...	69	69	69	69	35	29	29	18	69	17	12	.....	....	....	....	....	..	..	.....	.....
6	...	36	36	36	36	20	15	15	6	36	....	....	.....	....	....	....	....	..	..	.....	.....
3	...	14	14	14	14	6	5	5	3	14	....	....	14	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	..	..	.....	.....
25	...	25	25	25	25	25	25	25	25	25	....	....	.....	....	....	....	....	..	..	3,342 90	7,388 42
....	...	42	42	42	42	42	42	42	....	42	...	....	.....	....	....	....	....	..	..	.....	.....
....	...	35	35	35	35	35	12	12	....	35	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	11	.....	.....	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	35	35	35	35	.....	.....	.....	....	35	....	....	.....	....	....	....	....	..	..	.....	.....
25	...	176	176	176	176	113	79	79	25	176	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13,520 00	38,280 44
36	...	36	36	36	36	36	36	36	36	36	....	....	36	....	....	....	....	..	..	.....	.....
36	...	36	36	36	36	36	36	36	36	36	....	....	36	....	....	....	....	..	..	.....	.....
38	...	38	38	38	38	38	38	38	38	38	....	....	38	....	....	....	....	..	..	.....	.....
36	...	36	36	36	36	36	36	36	36	36	....	....	36	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	38	38	38	....	38	....	....	38	....	....	....	....	..	..	.....	.....
....	...	34	34	34	34	34	34	34	....	34	....	....	34	....	....	....	....	..	..	.....	.....
....	...	34	34	34	34	34	34	34	....	34	....	....	34	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	....	43	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	....	43	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	....	43	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	47	.....	.....	....	47	....	....	47	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	44	.....	.....	....	44	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	43	.....	.....	....	43	....	....	43	....	....	....	....	..	..	.....	.....
...	...	45	45	45	45	.....	.....	.....	....	45	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	35	35	35	35	35	.....	.....	....	35	....	....	35	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	18	18	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	.....	....	....	....	....	..	..	.....	.....
146	...	915	915	915	915	628	438	438	146	915	....	....	545	....	....	....	....	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	....	....	.....	....	....	....	....	..	..	6,500 00	20,856 73
48	...	48	48	48	48	48	48	48	48	48	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	46	46	46	....	46	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	....	....	39	....	....	....	....	..	..	.....	.....
...	...	41	41	41	41	41	18	18	....	41	....	....	.....	....	....	....	....	..	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Grand Forks, 7th Division	Miss B. J. Horner	1st Class	1,100	186	46	24	22	40.12	...	....	41	5	....
" 8th "	Miss C. Hall	3rd "	1,100	189	56	30	26	41.28	33	23	....	....	....
" 9th "	Miss A. Naylor	1st "	1,100	185	59	29	30	42.41	59	....	....	....	....
" 10th "	Miss J. A. Stuart	2nd "	1,100	117	46	22	24	37.89	....	....	....	46	....
					465	227	238	.....	92	23	41	74	146
Greenwood, 1st Division.	L. E. Tripp	2nd "	1,500	184	25	13	12	24.53	....	....	....	....	....
" 2nd "	Miss C. M. MacIntosh	2nd "	960	184	31	16	15	25.31	....	....	....	6	25
" 3rd "	Miss J. M. McKee	2nd "	900	184	28	18	10	24.84	7	4	17	....	....
					84	47	37	.....	7	4	17	6	25
Kamloops, 1st Division	W. H. Gray	1st "	2,300	186½	36	19	17	29.96	....	....	....	....	....
" 2nd "	A. Cullen	3rd "	1,750	187½	37	20	17	32.82	...	....	....	....	....
" 3rd "	H. McDonald	1st "	1,550	185½	46	21	25	37.45	....	....	....	....	....
" 4th "	Miss L. E. Dundas	2nd "	1,200	185	42	23	19	34.82	.	....	....	....	9
" 5th "	Miss M. A. Lott	2nd "	1,100	186½	45	20	25	38.56	....	....	....	....	45
" 6th "	Miss H. L. Winterbottom	2nd "	1,200	185	31	18	13	30.01	....	....	....	....	31
" 7th "	Miss A. L. Shotton	2nd "	1,100	185½	44	28	16	36.14	....	....	....	....	44
" 8th "	Miss V. M. Brookfield	Temporary	1,100	185½	52	33	19	44.45	....	....	....	52	....
" 9th "	Miss I. Crawford	2nd Class	1,300	186½	43	17	26	39.37	....	16	27	....	....
" 10th "	Miss F. K. Lawrence	3rd "	1,200	186½	45	16	29	37.27	....	1	44	....	....
" 11th "	Miss M. H. Dandy	2nd "	1,200	180	42	19	23	35.38	24	18	....	....	....
" 12th "	Miss M. H. Costley, B.A.	Academic	1,200	177	31	14	17	29.06	31	....	....	....	....
" 13th "	Mrs. J. Buss	Temporary	1,100	185½	46	26	20	39.21	30	16	....	....	....
" 14th "	Miss M. L. Curtis	2nd Class	1,200	181	41	24	17	32.49	41	....	....	....	....
" 15th "	Miss M. I. Weatherhead	2nd "	1,100	75	45	24	21	37.85	....	....	....	....	45
" 16th "	Miss H. S. Currie	3rd "	1,100	75	47	26	21	38.23	....	....	....	47	....
					673	348	325	.....	126	51	71	99	174
Kaslo, 1st Division	A. A. Hartley	Academic	2,000	187	37	15	22	36.25	....	....	....	....	....
" 2nd "	Miss M. Bonsall	2nd Class	1,200	187	48	27	21	31.26	....	....	....	....	48
" 3rd "	Miss M. E. Kerr	3rd "	1,080	187	49	28	21	38.07	...	....	15	34	....
" 4th "	Miss M. J. Kane	1st "	1,200	187	33	18	15	27.01	24	9	..	...	....
					167	88	79	.....	24	9	15	34	48
Kelowna, 1st Division	C. W. Lees	Academic	2,550	188	31	14	17	25.14	....	....	....	....	....
" 2nd "	M. Williams	1st Class	1,500	183	35	19	16	29.92	....	....	....	....	....
" 3rd "	Miss M. Page	2nd "	1,380	188	36	12	24	33.27	....	....	....	....	....
" 4th "	Miss A. M. Hunter	1st "	1,320	188	33	14	19	23.82	....	....	....	....	....
" 5th "	Miss M. S. Bell	2nd "	1,200	188	30	6	24	27.26	....	....	....	....	30
" 6th "	Miss D. G. Leckie	2nd "	1,320	188	31	12	19	30.78	....	....	....	....	31
" 7th "	Miss K. S. Fullerton	1st "	1,380	189	43	24	19	32.83	....	....	....	....	43
" 8th "	Miss H. M. Ritchie	2nd "	1,320	188	39	25	14	34.25	....	....	....	....	39
" 9th "	Miss M. I. Renwick	2nd "	1,200	188	33	13	20	26.57	....	....	....	33	....
" 10th "	Miss E. M. Davies	2nd "	1,320	188	45	25	20	32.65	....	....	4	41	....
" 11th "	Miss C. E. Lloyd-Jones	3rd "	1,080	188	33	19	14	30.37	....	....	33	....	....
" 12th "	Miss M. M. Harvey	2nd "	1,200	188	37	18	19	32.77	....	37	....	....	....
" 13th "	Miss M. V. Wood	2nd "	1,380	188	44	24	20	31.64	44	....	....	....	....
" 14th "	Miss E. R. Austin	1st "	1,200	188	36	17	19	30.24	29	7	....	....	....
Manual Training Inst.	W. C. Mitchell	Man. Train.	1,584	....	....	....	....	....	....	....	....	....	....
Domestic Science Inst.	Miss L. B. Mowat	Dom. Science	1,250	....	....	....	....	....	....	....	....	....	....
					506	242	264	.....	73	44	37	74	143
Ladysmith, 1st Division.	H. Martin	1st Class	2,000	187	34	18	16	32.33	....	....	....	....	....
" 2nd "	E. E. Snider	2nd "	1,500	187	49	21	28	33.31	....	....	....	....	....
" 3rd "	Mrs. A. M. Anderson	Temporary	1,000	187	41	16	25	35.84	....	....	....	....	....
" 4th "	Miss M. W. Dunse	2nd Class	1,000	186½	56	28	28	40.92	....	....	....	....	56
" 5th "	Miss E. V. S. Bickle	2nd "	1,000	186½	30	15	15	29.73	....	....	....	....	30
" 6th "	Miss R. V. Sidney	1st "	1,000	187½	34	17	17	31.95	....	....	....	....	34
" 7th "	Miss E. W. M Bauld	2nd "	1,000	186½	37	22	15	30.71	....	....	....	37	....
" 8th "	Miss K. M. Hill	3rd "	1,000	187½	35	17	18	31.60	....	....	....	35	....
" 9th "	Miss M. E. Gordon	3rd "	900	187½	25	12	13	24.12	....	....	25	....	....
" 10th "	Miss S. W. F. Bauld	3rd "	900	187½	40	23	17	32.59	22	18	....	....	....
" 11th "	Miss O. McPherson	2nd "	1,100	187½	39	29	10	35.54	39	....	....	....	....
Manual Training Inst.	W. J. Lister	Man. Train.	1,500	....	....	....	....	....	....	....	....	....	....
Domestic Science Inst.	Miss S. W. Canty	Dom. Science	1,200	....	....	....	....	....	....	....	....	....	....
					420	218	202	.....	61	18	25	72	120

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.

Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
....	...	46	46	46	46	5	.....	.....	....	46	....	....	.....	...	...	...	...	..	..	.....	.....
....	...	56	56	56	56	.....	.....	.....	...	56	....	....	56	....	...	...	...	..	..	.....	.....
...	...	59	59	59	59	.....	.....	.....	....	59	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	46	.....	.....	....	46	....	....	.....	....	...	...	...	..	..	.....	.....
89	...	465	465	465	465	309	235	235	89	465	....	....	95	....	...	...	...	..	..	.....	.....
25	...	25	25	25	25	25	25	25	25	25	....	....	.....	....	...	...	...	..	..	4,160	4,069 51
....	...	31	31	31	31	31	25	25	....	31	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	28	28	28	28	.....	.....	.....	...	28	....	....	.....	....	...	...	...	..	..	.....	.....
25	...	84	84	84	84	56	50	50	25	84	....	....	.....	....	...	...	...	..	..	.....	.....
36	...	36	36	36	36	36	36	36	36	36	....	....	.....	....	...	...	...	..	..	10,140	44,192 95
37	...	37	37	37	37	37	37	37	37	37	....	....	.....	....	...	...	...	..	..	.....	.....
46	...	46	46	46	46	46	46	46	46	46	..	....	.....	....	...	...	...	..	..	.....	.....
33	...	42	42	42	42	42	42	42	33	42	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	45	45	45	....	45	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	31	31	31	31	31	31	31	....	31	....	....	31	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	....	....	44	....	...	...	...	..	..	.....	.....
....	...	52	52	52	52	52	.....	.....	....	52	....	....	52	....	...	...	...	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	...	...	...	..	..	.....	.....
....	...	31	31	31	31	....	.....	.....	....	31	....	....	31	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	45	45	45	....	45	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	47	.....	.....	....	47	....	....	.....	....	...	...	...	..	..	.....	.....
152	...	673	673	673	673	425	326	326	152	673	...	....	288	....	...	...	...	..	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	....	....	.....	....	...	...	...	..	..	4,290	7,064 72
..	...	48	48	48	48	48	48	48	...	48	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	49	49	49	49	34	.....	.....	....	49	....	....	49	....	...	...	...	..	..	.....	.....
....	...	33	33	33	33	.....	.....	.....	....	33	....	....	33	....	...	...	...	..	..	.....	.....
37	...	167	167	167	167	119	85	85	37	167	....	....	82	....	...	...	...	..	..	.....	.....
31	...	31	31	31	31	31	31	31	31	31	14	17	....	...	...	...	...	..	..	9,360	27,146 34
35	...	35	35	35	35	35	35	35	35	35	19	16	.....	....	...	...	...	..	..	.....	.....
36	...	36	36	36	36	36	36	36	36	36	12	24	.....	...	...	...	...	..	..	.....	.....
33	...	33	33	33	33	33	33	33	33	33	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	30	30	30	30	30	30	..	....	30	6	24	30	..	...	...	...	..	..	.....	.....
....	...	31	31	31	31	31	31	31	...	31	12	19	31	....	...	...	...	..	..	.....	.....
....	...	43	43	43	43	43	43	43	...	43	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	33	33	33	33	33	.....	.....	....	33	....	....	.....	....	...	...	...	..	..	.....	.....
...	...	45	45	45	45	41	.....	.....	....	45	....	....	45	....	...	...	...	..	..	.....	.....
....	...	33	33	33	33	...	.....	.....	....	33	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	...	...	...	...	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	...	....	.....	....	...	...	...	..	..	.....	.....
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135	...	506	506	506	506	352	278	278	135	506	63	100	150	....	...	...	...	..	..	.....	.....
34	...	34	34	34	34	34	34	34	34	34	18	16	34	....	...	...	...	..	..	8,233.35	19,161 72
49	...	49	49	49	49	49	49	49	49	49	21	28	49	....	...	...	...	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	16	25	41	....	...	...	...	..	..	.....	.....
....	...	56	56	56	56	56	56	56	....	56	28	28	56	....	...	...	...	..	..	.....	.....
....	...	30	30	30	30	30	30	30	....	30	15	15	30	..	...	...	...	..	..	.....	.....
....	...	34	34	34	34	34	34	34	...	34	17	17	34	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	37	.....	.....	...	37	...	....	37	....	...	...	...	..	..	.....	.....
....	...	35	35	35	35	35	.....	.....	....	35	...	..	35	....	...	...	...	..	..	.....	.....
....	...	25	25	25	25	.....	.....	.....	....	25	....	....	25	....	...	...	...	..	..	.....	.....
....	..	40	40	40	40	.. .	....	.....	.. .	40	....	....	40	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	...	...	...	..	..	.....	.....
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....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	...	...	...	..	..	.....	.....
124	...	420	420	420	420	316	244	244	124	420	115	129	420	....	...	...	...	..	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Merritt, 1st Division (Sup.)	L. E. Morrissey	1st Class	2,070	182½	29	10	19	27.00	....	....	....	....	....
" 2nd "	H. S. Hurn	Temporary	1,400	182½	48	20	28	36.68	....	....	....	....	....
" 3rd "	Miss C. M. Batten	2nd Class	1,150	182½	47	24	23	40.26	....	....	....	....	20
" 4th "	Miss E. A. McMynn	3rd "	1,100	187½	55	26	29	44.15	....	....	....	....	55
" 5th "	Miss M. A. Brophy	3rd "	1,000	187½	42	20	22	41.06	....	....	....	20	22
" 6th "	Miss A. E. North	3rd "	1,000	187½	59	34	25	50.97	....	....	32	27	....
" 7th "	Miss N. H. Walsh	2nd "	1,000	187½	38	18	20	37.72	....	38	....	....	....
" 8th "	Miss K. A. Carson	3rd "	1,000	187½	35	14	21	32.18	35	....	....	....	....
" 9th "	Miss W. M. New	1st "	1,050	187½	43	25	18	35.91	43	....	....	....	....
					396	191	205	.....	78	38	32	47	97
Nanaimo:													
Middle Ward, 1st Div.	Miss E. E. Brown	3rd "	1,340	189	46	21	25	40.87	....	....	....	46	....
" 2nd "	Miss W. Mercer	2nd "	1,240	189	35	22	13	33.88	....	....	....	35	....
" 3rd "	Miss M. M. Stewart	2nd "	1,240	189	40	23	17	33.15	....	2	38	....	....
" 4th "	Miss H. S. Dailey	2nd "	1,240	189	51	28	23	45.98	26	25	....	....	....
					172	94	78	.....	26	27	38	81	....
Quennell, 1st Division	E. S. Martin	1st "	2,500	189	35	14	21	31.69	....	....	....	....	....
" 2nd "	Miss L. A. Mebius	2nd "	1,560	189	31	16	15	29 24	....	....	....	....	....
" 3rd "	Miss M. Woodman	2nd "	1,440	189	39	17	22	33.58	....	....	....	....	....
" 4th "	Miss M. P. Haarer	2nd "	1,540	189	39	20	19	35.63	....	....	....	....	....
" 5th "	Miss E. K. Rogers	1st "	1,440	189	40	22	18	36.47	....	....	....	....	....
" 6th "	A. R. Lane	2nd "	1,400	189	40	21	19	31.35	....	....	....	....	....
" 7th "	Miss R. D. Peto	2nd "	1,280	189	45	19	26	40.80	....	....	....	....	45
" 8th "	Miss K. I. Parrott	3rd "	1,340	189	48	20	28	42.82	....	....	....	....	48
" 9th "	Miss E. M. Anderson	2nd "	1,340	189	47	25	22	42.81	....	....	....	....	47
" 10th "	Miss F. E. Kenyon	2nd "	1,340	189	51	22	29	47.98	....	....	....	....	51
" 11th "	Miss N. Rogers	1st "	1,280	189	54	29	25	49.06	....	....	....	....	54
" 12th "	Miss A. S. Irvine	2nd "	1,220	189	55	26	29	48.20	....	....	....	....	55
" 13th "	Miss I. K. Haarer	3rd "	1,240	189	52	23	29	43.00	....	....	....	....	52
" 14th "	Miss S. E. Hardy	2nd "	1,240	189	55	29	26	44.23	....	....	....	55	....
" 15th "	Miss L. M. Campbell	3rd "	1,180	189	49	27	22	43.90	....	....	....	49	....
" 16th "	Miss D. Fisher	1st "	1,240	189	44	25	19	41.39	....	4	40	....	....
" 17th "	Miss A. A. Rowa	3rd "	1,240	189	43	23	20	38.35	....	43	....	....	....
" 18th "	Miss M. M. Steele	2nd "	1,240	189	44	26	18	38.67	44	....	....	....	....
" 19th "	Miss F. C. McGirr	2nd "	1,200	82	44	29	15	38.05	44	....	....	....	....
					855	433	422	....	88	47	40	104	352
South Ward, 1st Div.	Miss M. Lowther	3rd "	1,240	189	44	22	22	42.35	....	....	....	44	....
" 2nd "	Miss E. A. Cunningham	3rd "	1,340	189	50	25	25	47.71	....	24	26	....	....
" 3rd "	Miss F. L. Cook	3rd "	1,300	189	53	29	24	45.52	53	....	....	....	....
Manual Training Inst.	T. Spencer	Man. Train	1,660	....	....	.....	....	.....	....	....	....	....	....
Domestic Science Inst.	Miss E. Borie	Dom. Science	1,440	....	....	.....	.....	.....	....	....	....	....	....
					147	76	71	.....	53	24	26	44	....
Nelson, 1st Division	H. McArthur	1st Class	2,700	187	32	20	12	29.88	....	....	....	....	....
" 2nd "	Miss E. Beattie	1st "	1,700	187	37	20	17	31.49	....	....	....	....	....
" 3rd "	Miss E. M. Smith	2nd "	1,400	187	38	20	18	35.21	....	....	....	....	....
" 4th "	Miss M. Irvine	2nd "	1,400	187	36	22	14	33.41	....	....	....	....	....
" 5th "	Miss O. M. Bealby	2nd "	1,325	187	39	19	20	36.38	....	....	....	....	39
" 6th "	Miss G. Steeves	2nd "	1,325	187	41	21	20	35.09	....	....	....	....	41
" 7th "	Miss P. G. Whitebread	2nd "	1,325	187	38	21	17	34.76	....	....	....	....	38
" 8th "	Miss C. E. Wallach	2nd "	1,300	187	39	16	23	35.43	....	....	....	....	39
" 9th "	Miss E. Etter	2nd "	1,300	187	39	17	22	34.51	....	....	....	....	39
" 10th "	Miss M. Hodgson	2nd "	1,250	187	45	31	14	39.54	....	....	....	45	....
" 11th "	Miss I. M. Fleury	Temporary	1,250	187	42	19	23	37.51	....	....	....	....	42
" 12th "	Miss E. G. Hanna	2nd Class	1,150	187	51	31	20	37.62	....	....	....	51	....
" 13th "	Miss E. M. Doherty	1st "	1,150	187	40	20	20	35.14	....	....	40	....	....
" 14th "	Miss E. S. MacKenzie	1st "	1,150	187	38	21	17	33.54	38	....	....	....	....
" 15th "	Miss M. C. Honeyman	2nd "	1,150	186	40	22	18	36.16	....	....	40	....	....
" 16th "	Miss E. Ferguson	2nd "	1,150	186½	44	27	17	38.35	....	44	....	....	....
" 17th "	Miss B. E. Trembath	1st "	1,250	186½	40	19	21	34.14	40	....	....	....	....
" 18th "	Miss A. McLennan	3rd "	1,375	185	42	20	22	33.52	42	....	....	....	....
" 19th "	Miss M. M. Wilson	1st "	1,300	95	36	21	15	32.29	....	....	....	....	36
Manual Training Inst.	A. J. Cornish	Man. Train	1,500	....	....	.....	.....	.....	....	....	....	....	....
Domestic Science Inst.	Miss S. H. Higginbottom	Dom. Science	1,000	....	...	.....	.....	.....	....	....	....	....	....
					757	407	350	.....	120	44	80	96	274
New Westminster:													
F. W. Howay, 1st Div.	R. S. Shields, B.A.	Academic	2,400	177	32	15	17	31.21	....	....	....	....	....
" 2nd "	Miss L. M. Lane, B.A.	"	1,150	182	37	15	22	29.30	....	....	....	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
.....	29	29	18	.....	12	.....	.....	.....	20	29	....	....	.....	29	29	23	23	23	17	4,990 85	11,241 00
48	...	48	48	48	48	48	48	48	48	48	....	....	.....	....	....	....	....	....	....	.....	.....
27	...	47	47	47	47	47	47	47	27	47	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	55	55	55	55	55	55	55	....	55	....	....	55	....	....	....	....	....	....	.....	.....
....	...	42	42	42	42	42	22	22	...	42	....	....	42	....	....	....	....	....	....	.....	.....
....	...	59	59	59	59	27	.....	.....	....	59	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	....	....	....	....	....	.....	.....
.....	...	35	35	35	35	.....	.....	.....	....	35	....	....	35	....	....	....	....	....	....	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	....	....	....	....	....	.....	.....
75	29	396	385	367	379	219	172	172	104	396	....	....	213	29	29	23	23	23	17	.....	.....
.....	...	46	46	46	46	46	.....	.....	....	46	....	....	.....	....	....	....	....	....	....	17,016 65	39,322 80
....	...	35	35	35	35	35	.....	.....	....	35	....	....	.....	....	....	....	....	....	....	.....	.....
.....	...	40	40	40	40	.....	.....	.....	....	40	..	....	40	....	....	....	....	....	....	.....	.....
.....	...	51	51	51	51	.....	.....	.....	....	51	....	....	51	....	....	....	....	....	....	.....	.....
.....	...	172	172	172	172	81	.....	.....	....	172	....	....	91	....	....	....	....	....	....	.....	.....
35	...	35	35	35	35	35	35	35	35	35	14	21	.....	....	....	....	....	....	....	.....	.....
31	...	31	31	31	31	31	31	31	31	31	16	15	.....	....	....	....	....	....	....	.....	.....
39	...	39	39	39	39	39	39	39	39	39	17	22	....	....	....	....	....	....	....	.....	.....
39	...	39	39	39	39	39	39	39	39	39	20	19	.....	....	....	....	....	....	....	.....	.....
40	...	40	40	40	40	40	40	40	40	40	22	18	.....	....	....	....	....	....	....	.....	.....
40	...	40	40	40	40	40	40	40	40	40	21	19	.....	....	....	....	....	....	....	.....	.....
...	...	45	45	45	45	45	45	45	....	45	19	26	.....	....	....	....	....	....	....	.....	.....
....	...	48	48	48	48	48	48	48	....	48	20	28	.....	....	....	....	....	....	....	.....	.....
....	...	47	47	47	47	47	47	47	....	47	25	22	....	....	....	....	....	....	....	.....	.....
....	...	51	51	51	51	51	51	51	....	51	22	29	.....	....	....	....	....	....	....	.....	.....
....	...	54	54	54	54	54	54	54	....	54	...	....	.....	....	....	....	....	....	....	.....	.....
....	...	55	55	55	55	55	55	55	....	55	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	52	52	52	52	52	52	52	....	52	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	55	55	55	55	55	.....	.....	....	55	....	....	.....	....	....	....	....	....	....	.....	.....
..	...	49	49	49	49	49	.....	.....	....	49	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	.....	....	....	....	....	....	....	.....	.....
.....	...	44	44	44	44	.....	.....	.....	....	44	....	....	.....	....	....	....	....	....	....	.....	.....
224	...	855	855	855	855	680	576	576	224	855	195	219	.....	....	....	....	....	....	....	.....	.....
.....	...	44	44	44	44	44	.....	.....	....	44	...	...	.....	....	....	....	....	....	....	.....	.....
....	...	50	50	50	50	.....	.....	.....	....	50	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	53	53	53	53	.....	.....	.....	...	53	....	....	.....	....	....	....	....	....	....	.....	.....
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....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	147	147	147	147	44	.....	.. .	....	147	...	....	.....	....	....	....	....	....	....	.....	.....
32	...	32	32	32	32	32	32	32	32	32	20	12	.....	....	....	....	....	....	....	14,776 65	49,640 91
37	...	37	37	37	37	37	37	37	37	37	20	17	.....	....	....	....	....	....	....	.....	.....
38	...	38	38	38	38	38	38	38	38	38	20	18	.....	....	....	....	....	....	....	.....	.....
36	...	36	36	36	36	36	36	36	36	36	22	14	.....	....	....	....	....	....	....	.....	.....
....	...	39	39	39	39	39	39	39	....	39	19	20	....	....	....	....	....	....	....	.....	.....
....	...	41	41	41	41	41	41	41	....	41	21	20	....	....	....	....	....	....	....	.....	.....
....	...	38	38	38	38	38	38	38	....	38	21	17	.....	....	....	....	....	....	....	.....	.....
.....	...	39	39	39	39	39	39	39	....	39	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	39	39	39	39	39	39	39	....	39	....	...	39	....	....	....	....	....	....	.....	.....
....	...	45	45	45	45	45	.....	.....	....	45	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	42	42	42	42	42	42	42	....	42	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	51	51	51	51	51	.....	.....	....	51	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	38	38	38	38	.....	.....	.....	..	38	....	....	38	....	....	....	....	....	....	.....	.....
....	...	40	40	40	40	.....	.....	.....	..	40	....	....	40	....	....	....	....	....	....	.....	.....
....	...	44	44	44	44	.....	.....	.....	..	44	....	....	44	....	....	....	....	....	....	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	40	....	....	....	....	....	....	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	....	....	.....	.....
.....	...	36	36	36	36	36	36	36	....	36	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	....	....	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	....	....	.....	.....
143	...	757	757	757	757	513	417	417	143	757	143	118	243	....	....	....	....	....	....	.....	.....
32	...	32	32	32	32	32	32	32	32	32	15	17	.....	....	....	....	....	....	....	39,368 25	166,033 00
37	...	37	37	37	37	37	37	37	37	37	15	22	37	....	....	....	....	....	....	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
New Westminster—*Continued.*			$										
F. M. Howay, 3rd Div.	Miss E. B. Newby	2nd Class	1,150	182	39	17	22	33.64	....	....	....	....	....
" 4th "	Miss B. L. Keller	2nd "	915	182	45	16	29	35.60	....	....	....	....	45
" 5th "	Miss A. M. Archibald	Academic	950	182	47	20	27	38.11	....	....	....	....	47
" 6th "	Miss M. A. Matheson	2nd Class	950	182	50	28	22	33.29	....	....	....	....	50
" 7th "	Miss M. S. Homer	2nd "	1,300	182	43	24	19	33.24	....	....	....	....	43
" 8th "	Miss M. Godson	2nd "	1,300	182	55	25	30	46.02	....	....	....	55	...
" 9th "	Miss R. Ashburne	1st "	1,300	182	40	22	18	39.06	....	....	40	...	....
" 10th "	Miss V. E. Newby	2nd "	915	182	50	25	25	36.74	15	35	....	....	....
" 11th "	Miss G. L. Flynn	2nd "	1,000	182	44	17	27	30.49	44	....	....	....	....
" 12th "	Miss B. Bournes	1st "	1,400	159	32	17	15	28.63	....	....	....	....	....
					514	241	273	.....	59	35	40	55	185
Lord Kelvin, 1st Div.	Miss J. F. Rowan	2nd "	2,000	182	33	21	12	30.85	....	....	....	33	....
" 2nd "	Miss H. M. Smith	2nd "	1,150	182	37	17	20	37.64	....	....	....	37	....
" 3rd "	Miss L. Holtz	1st "	950	182	32	18	14	30.89	....	....	....	32	....
" 4th "	Miss F. Best	2nd "	950	182	38	23	15	37.64	....	....	38	....	....
" 5th "	Miss A. E. Smith	2nd "	950	181½	45	19	26	40.78	....	45	....	....	....
" 6th "	Miss B. J. Bowell	3rd "	1,050	182	42	20	22	32.90	42	....	....	....	....
" 7th "	Miss M. F. Richards	1st "	1,000	182	37	22	15	31.82	37	....	....	....	....
" 8th "	Miss L. M. Mayes	2nd "	915	182	40	24	16	31 81	40	....	....	....	....
					304	164	140	.....	119	45	38	102	....
Lord Lister, 1st Div.	F. O. Canfield	1st "	2,400	182	40	13	27	38.47	....	....	....	....	...
" 2nd "	Miss S. Gilley	1st "	1,700	183	35	20	15	31.83	....	....	....	....	....
" 3rd "	Miss C. M. Rennie	2nd "	1,300	182	20	12	8	19.39	....	....	....	....	....
" 4th "	Miss A. M. Mercer	2nd "	1,150	182	38	20	18	35.59	....	....	....	....	....
" 5th "	Miss A. Taylor	2nd "	1,000	182	43	22	21	40.95	....	....	....	....	....
" 6th "	Miss H. I. Turnbull	2nd "	1,150	182	49	24	25	45.01	....	....	....	....	49
" 7th "	Miss J. E. Monteith	1st "	950	182	41	16	25	37.53	....	....	....	....	41
" 8th "	Miss M. E. Moulton	2nd "	950	182	41	14	27	39.81	....	....	....	....	41
" 9th "	Miss R. L. Paterson	3rd "	950	90	39	19	20	38.07	....	....	....	....	39
					346	160	186	.....	....	....	....	....	170
Richard McBride, 1st D.	G. S. Summers	1st "	2,400	182	29	8	21	26.26	....	....	....	....	....
" 2nd "	Miss E. E. Knight	2nd "	1,700	177	35	16	19	29.76	....	....	....	....	....
" 3rd "	Miss L. E. Cameron	2nd "	950	182	35	19	16	30.91	....	....	....	....	....
" 4th "	Miss M. B. McLean	1st "	1,300	182	40	15	25	32.31	....	....	....	....	40
" 5th "	Miss E. O. Robertson	2nd "	1,150	182	34	13	21	31.77	....	....	....	....	34
" 6th "	Miss M. H. Anderson	2nd "	1,150	182	42	27	15	36.08	....	....	....	13	29
" 7th "	Miss A. Anderson	2nd "	950	182	51	26	25	39.97	....	....	....	51	....
" 8th "	Miss E. A. Milledge	1st "	950	182	45	22	23	42.12	....	....	45	...	....
" 9th "	Miss E. G. Atkinson	2nd "	950	182	34	16	18	32.11	....	34	....	....	....
" 10th "	Miss A. B. Peebles	2nd "	1,150	182	42	20	22	34.58	42	....	....	....	....
" 11th "	Miss J. Oswall	2nd "	1,300	182	43	20	23	36.62	43	....	....	....	....
					430	202	228	.....	85	34	45	64	103
Queensborough, 1st D.	Miss P. Dockrill	2nd "	1,700	182	35	22	13	30.42	....	....	....	12	23
" 2nd "	Miss L. Jenkins	2nd "	1,000	182	42	23	19	35.77	25	9	8	....	....
					77	45	32	.....	25	9	8	12	23
John Robson, 1st Div.	W. Coatham	1st "	2,400	182	32	13	19	30.04	....	....	....	....	....
" 2nd "	G. S. Ford	Academic	1,800	182	41	26	15	32.12	....	....	....	....	....
" 3rd "	Miss E. A. M. Matheson	2nd Class	1,000	182	37	22	15	26.39	....	....	....	....	....
" 4th "	Miss S. A. Dorsay	2nd "	1,060	182	36	23	13	33.36	....	....	....	....	36
" 5th "	Miss M. L. Peck	2nd "	950	182	35	25	10	34.29	....	....	....	....	35
" 6th "	Miss M. I. Calbeck	2nd "	1,300	182	46	23	23	36.91	....	....	....	46	....
" 7th "	Miss E. M. Gray	1st "	1,300	182	34	18	16	28.37	....	....	14	....	20
" 8th "	Miss B. Hardman	1st "	1,150	182	49	17	32	34.11	..	38	11	....	....
" 9th "	Miss G. M. Wells	2nd "	1,150	182	35	18	17	30.82	35	....	....	....	....
" 10th "	Miss M. M. Winter	2nd "	1,300	181½	44	28	16	29.10	44	....	....	....	....
" 11th "	J. Stuart	Academic	1,500	182	31	31	.....	20.91	....	12	14	5	....
					420	244	176	.....	79	50	39	51	91
Herbert Spencer, 1st D.	W. J. Fennell	1st Class	2,500	182	42	21	21	38.56	....	....	....	....	....
" 2nd "	Miss B. G. Dunn	2nd "	1,000	182	43	20	23	37.51	....	....	....	....	....
" 3rd "	Miss W. T. Plaxton	2nd "	1,800	182	47	22	25	42.78	....	....	....	....	47
" 4th "	Miss R. M. Gregg	1st "	1,150	182	37	20	17	36.60	....	....	....	....	37

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
39	...	39	39	39	36	39	39	39	39	39	17	22	39	....	....	....	....	..	..	.....	.....
....	...	45	45	45	45	45	45	45	....	45	16	29	45	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	47	47	47	...	47	20	27	47	....	....	....	....	..	..	.....	.....
....	...	50	50	50	50	50	50	50	....	50	....	....	50	....	....	....	....	..	..	.....	.....
...	...	43	43	43	43	43	43	43	...	43	....	....	43	....	....	....	....	..	..	.....	.....
....	...	55	55	55	55	55	.....	.....	....	55	....	....	55	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	....	.....	.....	....	40	....	....	40	....	....	....	....	..	..	.....	.....
...	.	50	50	50	50	.....	.....	.....	....	50	....	....	50	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	....	.....	.....	.....	44	....	....	44	....	....	....	....	..	..	.....	.....
32	...	32	32	32	32	32	32	32	32	32	17	15	32	....	....	....	....	..	..	.....	.....
140	...	514	514	514	514	380	325	325	140	514	100	132	482	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	33	.....	.....	....	33	....	....	33	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	37	....	....	....	37	....	....	37	....	....	....	....	..	..	.....	.....
....	...	32	32	32	32	32	.....	.....	...	32	....	....	32	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	...	38	....	....	38	....	....	....	....	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	40	....	....	....	....	..	..	.....	.....
....	...	304	304	304	304	102	.....	.....	...	304	....	....	304	....	....	....	....	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	13	27	40	....	....	....	....	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	20	15	35	....	....	....	....	..	..	.....	.....
20	...	20	20	20	20	20	20	20	20	20	12	8	20	....	....	....	....	..	..	.....	.....
38	...	38	38	38	38	38	38	38	38	38	20	18	38	....	....	....	....	..	..	.....	.....
43	...	43	43	43	43	43	43	43	43	43	22	21	43	....	....	....	....	..	..	.....	.....
....	...	49	49	49	49	49	49	49	....	49	24	25	49	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	41	41	41	...	41	....	....	....	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	41	41	41	....	41	....	....	41	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	....	....	39	....	....	....	....	..	..	.....	.....
176	...	346	346	346	346	346	346	346	176	346	111	114	305	....	....	....	....	..	..	.....	.....
29	...	29	29	29	29	29	29	29	29	29	8	21	29	....	....	....	....	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	16	19	35	....	....	....	....	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	19	16	35	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	40	40	40	....	40	15	25	40	....	....	....	....	..	..	.....	.....
...	...	34	34	34	34	34	34	34	....	34	13	21	34	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	42	29	29	....	42	....	....	42	....	....	....	....	..	..	.....	.....
....	...	51	51	51	51	51	.....	.....	....	51	....	....	51	....	....	....	....	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	..	....	45	....	....	....	....	..	..	.....	.....
...	...	34	34	34	34	...	.....	.....	....	34	....	....	34	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	....	....	....	..	..	.....	.....
99	...	430	430	430	430	266	202	202	99	430	71	102	430	....	....	....	....	..	..	.....	.....
....	..	35	35	35	35	35	23	23	....	35	6	7	35	....	....	....	....	..	..	.....	.....
..	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
. ..	...	77	77	77	77	35	23	23	....	77	6	7	77	....	....	....	....	..	..	.....	.....
32	...	32	32	32	32	32	32	32	32	32	13	19	32	....	....	....	....	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	26	15	41	....	....	....	....	..	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	22	15	37	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	36	36	36	....	36	23	13	36	....	....	....	....	..	..	.....	.....
....	...	35	35	35	35	35	35	35	....	35	....	....	35	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	46	.....	.....	....	46	....	....	46	....	....	....	....	..	..	.....	.....
....	...	34	34	34	34	20	20	20	....	34	....	....	34	....	....	....	....	..	..	.....	.....
....	...	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	....	....	....	..	..	.....	.....
...	...	35	35	35	35	.....	.....	.....	....	35	....	....	35	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	....	....	....	..	..	.....	.....
....	...	31	31	31	31	5	.....	.....	....	31	....	....	31	....	....	....	....	..	..	.....	.....
110	...	420	420	420	420	252	201	201	110	420	84	62	420	....	....	....	....	..	..	.....	.....
42	...	42	42	42	42	42	42	42	42	42	21	21	42	....	....	....	....	..	..	.....	.....
43	...	43	43	43	43	43	43	43	43	43	20	23	43	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	47	47	47	....	47	22	25	47	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	37	37	37	....	37	....	....	37	....	....	....	....	..	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
New Westminster—*Continued.*			$										
Herbert Spencer, 5th D.	Miss N. E. Dockrill	1st Class	1,300	182	37	18	19	36.37	....	....	....	....	37
" 6th "	Miss F. R. Murphy	2nd "	1,000	182	46	21	25	37.74	....	....	....	46	....
" 7th "	Miss V. W. Bowell	1st "	950	182	42	14	28	35.83	....	....	33	9	....
" 8th "	Miss M. M. Vert	2nd "	950	182	35	18	17	29.02	....	35	....	....	....
" 9th "	Miss J. M. Peebles	2nd "	1,300	182	36	17	19	30.12	36	....	....	....	....
" 10th "	Miss M. C. MacKinnon	Temporary	950	90	34	13	21	27.33	34	....	....	....	....
" 11th "	Miss H. P. Davidson	1st Class	1,360	47	13	6	7	12.25	....	....	2	8	3
Manual Training Inst.	W. Steele	Man. Train.	1,900	....	....	....	....	....	....	....	....	....	....
" "	H. Hill	"	1,800	....	....	....	....	....	....	....	....	....	....
Domestic Science Inst.	Miss G. A. Fredea	Dom. Science	1,400	....	....	....	....	....	....	....	....	....	....
" "	Miss A. J. F. Sutherland	"	1,275	....	....	....	....	....	....	....	....	....	....
" "	Miss I. E. Sutherland	"	1,275	....	....	....	....	....	....	....	....	....	....
Supervisor of Music	F. T. C. Wickett	Music	1,700	....	....	....	....	....	....	....	....	....	....
					412	190	222	.....	70	35	35	63	124
Port Alberni, 1st Division	H. V. Hildidge	2nd Class	1,400	187½	52	27	25	46.50	....	....	....	....	....
" 2nd "	Miss E. L. Thornley	2nd "	950	181	46	27	19	37.15	....	....	....	12	34
" 3rd "	Miss A. T. Baillie	2nd "	900	189	48	20	28	25.15	....	16	17	15	....
" 4th "	Miss W. A. Highman	2nd "	900	184	40	20	20	32.47	40	....	....	....	....
					186	94	92	.....	40	16	17	27	34
Port Coquitlam:													
Central, 1st Division	F. W. Harvey	Academic	1,800	186	26	12	14	23.67	....	....	....	....	....
" 2nd "	Miss D. Ball	Temporary	1,134	186	26	14	12	25.34	....	....	....	....	26
" 3rd "	Miss M. A. Mack	2nd Class	900	186	30	15	15	29.60	....	....	12	18	....
" 4th "	Miss B. J. Sharp	3rd "	1,000	186	44	21	23	39.68	32	12	....	....	....
" 5th "	Miss A. E. Irvine	1st "	900	91	27	12	15	24.01	....	....	....	....	12
					153	74	79	.....	32	12	12	18	38
James Park, 1st Div.	Miss E. M. Cox	1st "	1,400	185½	34	18	16	24.42	....	....	....	....	13
" 2nd "	Miss A. E. Park	3rd "	900	151	27	15	12	25.29	....	....	8	19	....
" 3rd "	Miss E. W. Maxwell	3rd "	1,000	186	30	17	13	27.96	20	10	....	....	....
					91	50	41	.....	20	10	8	19	13
Port Moody, 1st Division	Miss A. A. Pierce	1st "	1,300	186½	27	13	14	23.14	....	....	....	....	....
" 2nd "	Miss I. Simpson	2nd "	1,000	182½	34	13	21	28.77	....	....	....	....	34
" 3rd "	Miss E. Hague	3rd "	1,000	186½	35	18	17	28.98	....	....	....	21	14
" 4th "	Miss D. A McKie	2nd "	1,000	176½	48	28	20	35.86	....	13	17	18	....
" 5th "	Miss E. M. Cobeldick	2nd "	900	168	32	15	17	29.03	32	....	....	....	....
					176	87	89	.....	32	13	17	39	48
Prince George, 1st Div.	W. P. Beal	Academic	2,200	185	34	16	18	26.15	....	....	....	....	....
" 2nd "	Miss R. Raftery	2nd Class	1,350	185	34	17	17	28.82	....	....	....	....	34
" 3rd "	Miss E. E. Gibson	2nd "	1,250	185½	33	13	20	28.52	....	....	....	....	33
" 4th "	Miss M. E. Rolston	3rd "	1,300	176½	39	20	19	33.56	....	....	....	39	....
" 5th "	Miss E. Milligan	2nd "	1,400	186	39	18	21	30.65	....	21	18	....	....
" 6th "	Miss H. B. Baker	3rd "	1,250	179½	48	25	23	34.20	48	....	....	....	....
" 7th "	Miss K. C. Halliday	1st "	1,300	116½	44	25	19	29.83	44	....	....	....	....
					271	134	137	.....	92	21	18	39	67
Prince Rupert, 1st Div.	A. M. McDonald	1st Class	3,267	189½	37	17	20	36.33	....	....	....	....	....
" 2nd "	Miss E. A. Mercer	Academic	1,534	188½	37	16	21	33.35	....	....	....	....	....
" 3rd "	Miss J. Rothwell	1st Class	1,704	188½	33	14	19	31.61	....	....	....	....	33
" 4th "	Miss A. McL. McKinnon	2nd "	1,704	188½	36	20	16	34.21	....	....	....	....	36
" 5th "	Miss S. L. Stone	1st "	1,704	188½	39	22	17	37.08	....	....	....	....	39
" 6th "	Miss B. Walker	1st "	1,573	188½	45	20	25	40.36	....	....	....	45	....
" 7th "	Miss N. E. Rivett	Temporary	1,573	188½	47	23	24	40.37	....	....	22	25	....
" 8th "	Miss J. T. Willett	Academic	1,573	188½	51	27	24	34.73	....	51	....	....	....
" 9th "	Miss M. Gladwell	"	1,782	188½	47	29	18	37.30	47	....	....	....	....
" 10th "	Miss M. Martin	2nd Class	1,594	187½	37	19	18	28.46	....	....	....	19	18
" 11th "	Miss H. F. Nickerson	3rd "	1,337	188½	38	19	19	30.46	24	....	14	....	....
" 12th "	Miss S. A. Mills	2nd "	1,884	188½	26	15	11	24.23	....	....	....	....	....
" 13th "	Miss E. Sewell	1st "	1,534	188½	29	14	15	28.03	....	....	....	....	....
" 14th "	Miss A. M. Mercer	1st "	1,468	188½	37	17	20	34.44	....	....	....	....	37
" 15th "	Miss J. B. Eason	3rd "	1,638	188½	37	17	20	32.85	....	....	....	....	37
" 16th "	Miss B. Macleod	1st "	1,704	188½	40	22	18	33.78	....	....	....	25	15
" 17th "	Miss G. Macdonald	2nd "	1,573	187	40	17	23	36.31	....	....	18	22	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		
																				$ cts.	$ cts.
....	....	37	37	37	37	37	37	37	....	37	....	....	37	....	....	....	....	..	..	.....	.....
....	....	46	46	46	46	46	.....	.....	....	46	....	....	46	....	....	....	....	..	..	.....	.....
....	....	42	42	42	42	9	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
....	....	35	35	35	35	.....	.....	.....	....	35	....	....	35	....	....	....	....	..	..	.....	.....
....	....	36	36	36	36	.....	....	....	....	36	....	....	36	....	....	....	....	..	..	.....	.....
....	....	34	34	34	34	....	.....	.....	....	34	....	....	34	....	....	....	....	..	..	.....	.....
....	....	13	13	13	13	11	3	3	....	13	6	7	13	....	....	....	....	..	..	.....	.....
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....	....	.....	....	.....	.....	.....	.....	....	....	.....	....	....	.....	....	....	....	....	..	..	.....	.....
85	...	412	412	412	412	272	209	209	85	412	69	76	412	....	....	....	....	..	..	.....	.....
52	...	52	52	52	52	52	52	52	52	52	16	....	52	....	....	....	....	..	..	2,825 00	9,299 98
...	...	46	46	46	46	46	34	34	..	46	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	15	.....	.....	....	48	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	.....	....	....	....	....	..	..	.....	.....
52	...	186	186	186	186	113	86	86	52	186	16	....	52	....	....	....	....	..	..	.....	.....
																				4,002 10	9,936 81
26	...	26	26	26	26	26	26	26	26	26	....	....	.....	....	....	....	....	..	..	.....	.....
....	..	26	26	26	26	26	26	26	...	26	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	30	30	30	30	18	.....	.....	....	30	....	....	30	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	....	....	....	..	..	.....	.....
15	..	27	27	27	27	27	27	27	15	27	....	....	.....	....	....	....	....	..	..	.....	.....
41	...	153	153	153	153	97	79	79	41	153	...	...	74	....	....	....	....	..	..	.....	.....
21	...	34	34	34	34	34	34	34	21	34	....	....	34	....	....	....	....	..	..	.....	.....
....	...	27	27	27	27	19	.....	.....	....	27	....	....	27	....	....	....	....	..	..	.....	.....
....	...	30	30	30	30	.....	.....	.....	....	30	....	....	30	....	....	....	....	..	..	.....	.....
21	...	91	91	91	91	53	34	34	21	91	....	....	91	....	....	....	....	..	..	.....	.....
27	...	27	27	27	27	27	27	27	27	27	13	14	.....	....	....	....	....	..	..	2,919 15	9,888 42
....	...	34	34	34	34	34	34	34	....	34	13	21	.....	..	....	....	....	..	..	.....	.....
..	...	35	35	35	35	35	14	14	....	35	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	18	.....	.....	....	48	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	32	32	32	32	.....	.....	.....	...	32	....	....	.....	....	....	....	....	..	..	.....	.....
27	...	176	176	176	176	114	75	75	27	176	26	35	.....	....	....	....	....	..	..	.....	.....
34	...	34	34	34	34	34	34	34	34	34	....	....	.....	....	....	....	....	..	..	4,237 50	14,618 61
....	...	34	34	34	34	34	34	34	....	34	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	33	33	33	....	33	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	.....	.....	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	....	48	....	....	....	....	..	..	.....	.....
....	..	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	....	....	....	..	..	.....	.....
34	...	271	271	271	271	140	101	101	34	271	...	....	92	....	....	....	....	..	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	17	20	.....	....	....	....	....	..	..	11,873 35	215,180 24
37	...	37	37	37	37	37	37	37	37	37	16	21	.....	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	33	33	33	....	33	14	19	.....	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	36	36	36	....	36	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	....	....	39	....	....	....	....	..	..	.....	.....
....	...	45	45	45	45	45	....	.....	...	45	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	25	.....	.....	....	47	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	51	51	51	51	.....	.....	.....	....	51	....	....	51	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	.....	.....	.....	...	47	....	....	47	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	37	18	18	....	37	....	....	37	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	....	....	....	..	..	.....	.....
26	...	26	26	26	26	26	26	26	26	26	15	11	.....	....	....	....	....	..	..	.....	.....
29	...	29	29	29	29	29	29	29	29	29	14	15	29	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	37	37	37	....	37	17	20	.....	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	37	37	37	....	37	....	....	37	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	40	15	15	....	40	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	22	.....	.....	...	40	....	....	.....	....	....	....	....	..	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Prince Rupert, 18th Div..	Miss G. Hall.....	2nd Class....	1,599	188½	46	26	20	35.89	18	28	....	....	....
Manual Training Inst....	E. H. Shockley	Man. Train..	1,966	....	....	....	....	....	....	....	....	....	....
Domestic Science Inst...	Miss A. B. Marcellus....	Dom. Science	1,966	....	....	....	....	....	....	....	....	....	....
					702	354	348	.....	89	79	54	136	215
Revelstoke, Principal	I. Bassett.....	1st Class	2,450	....	....	....	....	....	....	....	....	....	....
" 1st Division..	Miss G. L. Urquhart	2nd " ...	1,600	189	48	25	23	41.69	....	..	....	....	....
" 2nd " ..	Mrs. M. H. Telfer.....	2nd " ...	1,500	189	39	20	19	38.00	....	....	....	....	....
" 3rd " ..	Miss E. J. Jenkins	1st "	1,300	189	43	20	23	38.29	....	....	....	....	....
" 4th " ..	Miss R. B. McKay.	3rd "	1,260	189	35	19	16	34.52	....	....	....	....	35
" 5th " ..	Miss I. S. Street	2nd "	1,260	187	38	11	27	36.41	...	....	....	...	38
" 6th " ..	Miss L. M. Creelman....	1st "	1,260	189	45	27	18	39.13	....	....	....	....	45
" 7th " ..	Miss J. L. Slater.....	3rd "	1,190	189	47	22	25	43.68	....	....	....	23	24
" 8th " ..	Miss H. H. Montgomery.	2nd "	1,140	187	47	23	24	42.66	....	....	....	30	17
" 9th " ..	Miss B. M. Buckley	Temporary ..	1,030	183	44	25	19	41.01	....	4	1	39	....
" 10th " ..	Miss H. A. Tomlinson...	2nd Class....	1,080	188½	41	20	21	35.05	....	1	17	23	...
" 11th " ..	Miss K. N. G. Apps	2nd "	1,030	188	46	22	24	40.13	...	27	19	...	....
" 12th " ..	Miss O. E. M. Coursier..	2nd " ...	1,140	186	47	21	26	40.27	47	....	....	....	....
" 13th " ..	Miss V. E. I. Procunier..	2nd "	1,200	184	41	22	19	34.97	30	11	....	....	....
" 14th " ..	Miss E. H. Creelman....	1st "	1,320	96	33	18	15	28.27	33	....	....	....	....
					594	295	299	.....	110	43	37	115	159
Rossland, 1st Division..	J. C. Robson.....	2nd "	2,000	183	31	16	15	28.92	....	....	....	....	....
" 2nd " ..	Miss F. J. S. Fraser.....	2nd "	1,600	183	25	13	12	23.34	....	....	....	....	....
" 3rd " ..	Miss H. M. Trembath ...	2nd "	1,400	183	38	11	27	35.59	....	....	....	....	....
" 4th " ..	Miss M. Stanton..	3rd "	1,200	188	41	19	22	38.22	....	....	....	....	
" 5th " ..	Miss G. M. York	2nd "	1,200	188	45	24	21	38.50	....	....	....	....	45
" 6th " ..	Miss F. Allen.....	3rd "	1,200	188	43	23	20	37.74	....	....	....	....	43
" 7th " ..	Miss W. M. Marquhart..	2nd "	1,100	188	47	25	22	41.44	....	....	....	1	46
" 8th " ..	Miss M. A. Munro.....	2nd "	1,000	188	47	28	19	40.63	....	....	..	47	....
" 9th " ..	Miss M. M. Ellis.....	2nd "	1,000	188	46	19	27	39.21	....	....	36	10	....
" 10th " ..	Mrs. I. Embleton.	2nd "	1,400	183	45	28	17	38.86	28	17	....	....	....
" 11th " ..	Miss G. F. Martin.	3rd "	1,400	188	54	22	32	43.77	25	29	....	....	....
Manual Training Inst....	C. E. Head.....	Man. Train..	1,600	....	....	....	....	....	....	....	....	....	....
Domestic Science Inst...	Miss L. A. Reid.....	Dom. Science	1,500	....	....	....	....	....	....	....	....	....	....
					462	228	234	.....	53	46	36	58	134
Salmon Arm, 1st Division	J. A. Chambers.....	2nd Class..	1,800	188½	41	21	20	33.79	....	....	....	....	....
" 2nd "	Miss S. E. McKnight....	3rd " ...	960	188½	37	14	23	31.34	....	....	....	....	37
" 3rd "	Miss E. T. Parkins.....	2nd "	960	189½	40	19	21	39.34	....	....	5	35	....
" 4th "	Miss V. G. Halpenny ...	2nd "	1,000	188½	42	14	28	35.89	13	14	15	..	....
					160	68	92	.....	13	14	20	35	37
Slocan, 1st Division.....	Miss F. M. Beek	2nd "	1,500	185	32	15	17	27.56	...	....	....	....	10
" 2nd "	Miss M. F. Bassett.....	2nd "	1,000	187	29	16	13	24.29	2	5	10	10	2
					61	31	30	.... .	2	5	10	10	12
Trail:													
Central, 1st Division..	Miss E. Thom.....	2nd "	2,400	189	42	15	27	38.19	....	....	....	....	...
" 2nd " ..	Miss J. L. Munro	2nd "	1,500	189	40	21	19	36.61	..	...	....	....	...
" 3rd " ..	Miss M. J. Fraser	2nd "	1,400	189	40	18	22	31.65	....	...	..	....	19
" 4th " ..	Miss E. J. Kerr	2nd "	1,300	189	41	24	17	35.81	....	....	....	....	41
" 5th " ..	Miss F. A. McDonald....	2nd "	1,200	189	40	24	16	37.51	....	....	....	....	40
" 6th " ..	Miss H. E. Eldridge.....	1st "	1,200	189	44	22	22	40.81	....	....	....	....	44
" 7th " ..	Miss H. B. M. de Gagnè.	2nd "	1,250	72	Closed Dec. 31			40.31	...	....	....	....	....
" 8th " ..	Miss V. A. Stanton.....	2nd "	1,150	189	44	17	27	42.14	....	....	20	24	....
" 9th " ..	Miss D. L. Schofield.....	2nd "	1,150	189	42	27	15	41.25	....	....	....	42	....
" 10th " ..	Miss G. S. Lougheed	3rd "	1,150	189	45	22	23	42.03	....	....	45	....	....
" 11th " ..	Miss E. M. Newman	3rd "	1,150	189	44	22	22	36.33	....	44	....	....	....
" 12th " ..	Miss M. E. McArthur ...	2nd "	1,350	184	42	22	20	40.09	42	....	....	....	....
" 13th " ..	Miss B. M. Gilpin	2nd "	1,350	72	Closed Dec. 31			41.73	....	....	....	....	....
" 14th " ..	Miss L. J. Morrish.	Temporary ..	1,150	117	39	22	17	34.60	...	....	....	...	39
" 15th " ..	Miss H. B. M. de Gagnè.	2nd Class....	1,250	117	40	19	21	36.41	40	....	....	....	....
" 16th " ..	Miss B. M. Gilpin	2nd "	1,350	117	29	14	15	28.33	29	....	....	....	....
					572	289	283	.....	111	44	65	66	183
Tadanac, 1st Division..	Miss M. M. Morrow	2nd "	1,350	180½	17	9	8	14.17	....	....	....	....	9
" 2nd " ..	Miss E. M. Thompson...	2nd "	1,080	188½	26	12	14	17.94	7	6	6	7	....
					43	21	22	.....	7	6	6	7	9

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			
																					$ cts.	$ cts.
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	...	...	...	..	..	.....	.....	.....
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129	...	702	702	702	702	480	344	344	129	702	93	106	324	....	...	...	...	..	..	.....	.....	.....
....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	.....	....	...	...	...	..	..	9,750 00	32,105 25	
48	...	48	48	48	48	48	48	48	48	48	....	....	.....	....	...	...	...	..	..	.....	.....	.....
39	...	39	39	39	39	39	39	39	39	39	....	....	.....	....	...	...	...	..	..	.....	.....	.....
43	...	43	43	43	43	43	43	43	43	43	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	35	35	35	35	35	35	35	....	35	....	....	35	....	...	...	...	..	..	.....	.....	.....
....	...	38	38	38	38	38	38	38	...	38	....	....	38	....	...	...	...	..	..	.....	.....	.....
....	...	45	45	45	45	45	45	45	...	45	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	47	47	47	47	47	24	24	....	47	....	....	47	....	...	...	...	..	..	.....	.....	.....
....	...	47	47	47	47	47	17	17	....	47	....	....	47	....	...	...	...	..	..	.....	.....	.....
....	...	44	44	44	44	39	.....	.....	....	44	....	....	44	....	...	...	...	..	..	.....	.....	.....
....	...	41	41	41	41	23	.....	.....	....	41	....	....	41	....	...	...	...	..	..	.....	.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	...	...	...	..	..	.....	.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	....	....	47	....	...	...	...	..	..	.....	.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	....	...	...	...	..	..	.....	.....	.....
....	...	33	33	33	33	.....	.....	.....	....	33	....	....	33	....	...	...	...	..	..	.....	.....	.....
130	...	594	594	594	594	404	289	289	130	594	....	....	419	....	...	...	...	..	..	.....	.....	.....
31	...	31	31	31	31	31	31	31	31	31	16	15	.....	....	...	...	...	..	..	8,406 65	22,484 75	
25	...	25	25	25	25	25	25	25	25	25	13	12	.....	....	...	...	...	..	..	.....	.....	.....
38	...	38	38	38	38	38	38	38	38	35	11	27	.....	....	...	...	...	..	..	.....	.....	.....
41	...	41	41	41	41	41	41	41	41	41	19	22	.....	....	...	...	...	..	..	.....	.....	.....
....	...	45	45	45	45	45	45	45	....	45	24	21	.....	....	...	...	...	..	..	.....	.....	.....
....	...	43	43	43	43	43	43	43	....	43	23	20	.....	....	...	...	...	..	..	.....	.....	.....
....	...	47	47	47	47	47	46	46	....	47	26	21	.....	....	...	...	...	..	..	.....	.....	.....
....	...	47	47	47	47	47	.....	.....	....	47	....	....	.....	....	...	...	...	..	..	.....	.....	.....
...	...	46	46	46	46	10	.....	.....	....	46	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	...	..	..	.....	.....	.....
....	...	54	54	54	54	.....	.....	.....	....	54	....	....	54	....	...	...	...	..	..	.....	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	.....	....	...	...	...	..	..	.....	.....	.....
135	...	462	462	462	462	327	269	269	135	462	132	138	99	....	...	...	...	..	..	.....	.....	.....
41	...	41	41	41	41	41	41	41	41	41	....	....	.....	....	...	...	...	..	..	3,390 00	6,483 02	
....	...	37	37	37	37	37	37	37	....	37	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	40	40	40	40	35	.....	.....	....	40	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	...	...	...	..	..	.....	.....	.....
41	...	160	160	160	160	113	78	78	41	160	....	....	42	....	...	...	...	..	..	.....	.....	.....
22	...	32	32	32	32	32	32	32	22	32	....	....	.....	....	...	...	...	..	..	1,600 85	3,193 27	
....	...	29	29	29	29	12	2	2	....	29	....	....	.....	....	...	...	...	..	..	.....	.....	.....
22	...	61	61	61	61	44	34	34	22	61	....	....	.....	....	...	...	...	..	..	.....	.....	.....
42	...	42	42	42	42	42	42	42	42	42	15	....	.....	....	...	...	...	..	..	11,440 00	29,776 12	
40	...	40	40	40	40	40	40	40	40	40	21	....	.....	....	...	...	...	..	..	.....	.....	.....
21	...	40	40	40	40	40	40	40	21	40	18	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	41	41	41	41	41	41	41	....	41	24	17	.....	....	...	...	...	..	..	.....	.....	.....
....	...	40	40	40	40	40	40	40	....	40	24	16	.....	....	...	...	...	..	..	.....	.....	.....
....	...	44	44	44	44	44	44	44	....	44	22	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	44	44	44	44	24	.....	.....	....	44	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	42	42	42	42	42	.....	.....	....	42	....	....	42	....	...	...	...	..	..	.....	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	...	..	..	.....	.....	.....
....	..	44	44	44	44	.....	.....	.....	....	44	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	39	39	39	39	39	39	39	....	39	21	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	.....	....	...	...	...	..	..	.....	.....	.....
....	...	29	29	29	29	.....	.....	.....	....	29	....	....	.....	....	...	...	...	..	..	.....	.....	.....
103	...	572	572	572	572	352	286	286	103	572	145	33	87	....	...	...	...	..	..	.....	.....	.....
8	...	17	17	17	17	17	17	17	8	17	9	8	.....	....	...	...	...	..	..	.....	.....	.....
....	...	26	26	26	26	7	.....	.....	....	26	....	....	.....	....	...	...	...	..	..	.....	.....	.....
8	...	43	43	43	43	24	17	17	8	43	9	8	.....	....	...	...	...	..	..	.....	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Trail—*Continued.*			$										
Trail, East, 1st Div....	Mrs. B. Williams.....	3rd Class....	1,350	188½	19	7	12	17.90	....	....	....	....	11
" 2nd "	Miss G. Wilkinson	2nd "	1,080	188½	20	7	13	17.85	8	1	2	9	....
Manual Training Inst....	W. J. Williams	Man. Train..	1,750	....	....	....	....	....	....	....	....	....	....
					39	14	25	....	8	1	2	9	11
Vancouver:													
Aberdeen, 1st Division	H. L. Paget	1st Class....	2,280	185½	35	17	18	28.95	....	....	....	....	....
" 2nd "	R. Sparling (Principal)..	1st "	2,880	185½	46	25	21	40.24	....	....	....	....	....
" 3rd "	Miss M. C. Cowie	2nd "	1,500	185½	49	25	24	37.26	....	....	....	....	49
" 4th "	Miss I. Shaneman.	Academic....	1,260	185½	36	20	16	33.05	....	....	....	....	36
" 5th "	Miss J. Paterson.....	1st Class ...	1,680	185½	53	23	30	36.74	....	....	....	....	53
" 6th "	Miss M. E. Logan.....	1st "	1,260	185½	47	20	27	39.23	....	....	....	47	....
" 7th "	Miss L. Murray	2nd "	1,200	185½	33	13	20	28.14	....	....	....	33	....
" 8th "	Miss D. C. Eldridge.....	2nd "	1,680	185½	52	29	23	40.66	....	....	52	....	....
" 9th "	Miss M. F. Pullen.....	2nd "	1,260	185½	44	26	18	36.02	19	25	....	....	....
" 10th "	Miss J. K. Anstie	1st "	1,680	185½	45	26	19	34.41	45	....	....	....	....
" 11th "	Miss E. Olding.....	2nd "	1,680	95	50	27	23	38.37	50	....	....	....	....
					490	251	239	.....	114	25	52	80	138
Alexandra, 1st Division	G. H. Tom	1st "	3,360	186½	34	11	23	28.75	....	....	....	....	....
" 2nd "	T. V. Clarke.....	1st "	2,280	186½	36	13	23	31.96	....	....	....	....	....
" 3rd "	Miss I. Sharman ...[B.A.	2nd "	1,680	186½	38	23	15	32.19	....	....	....	....	....
" 4th "	Miss C. H. McFarland,	Academic....	1,680	186½	41	24	17	35.56	....	....	....	....	....
" 5th "	Miss G. Featherstone	2nd Class....	1,200	186½	41	24	17	34.54	....	....	....	....	18
" 6th "	Miss M. K. Anderson, B.A.	Academic....	1,680	186½	44	20	24	38.35	....	....	....	....	44
" 7th "	Miss M. H. Dunmore....	2nd Class ..	1,320	186½	40	19	21	39.05	....	....	....	....	40
" 8th "	Miss A. G. Russell	2nd "	1,200	186½	41	20	21	40.00	....	....	....	....	41
" 9th "	Miss A. F. Wilkman	1st "	1,440	186½	49	25	24	39.00	....	....	....	....	49
" 10th "	Miss F. I. Donaghy	2nd "	1,380	186½	41	25	16	36.83	....	....	....	41	....
" 11th "	Miss C. E. Maynard, B.A.	Academic....	1,140	186½	40	21	19	36.36	....	....	1	39	....
" 12th "	Miss N. D. Evans	2nd Class....	1,500	186½	44	23	21	39.17	....	....	22	22	....
" 13th "	Miss S. W. Rempel.....	Academic....	1,680	186½	57	32	25	39.13	....	22	35	....	....
" 14th "	Miss L. C. Campbell	1st Class....	1,260	186½	55	25	30	39.07	34	21	....	....	....
" 15th "	Miss A. I. Duke.....	2nd "	1,320	186½	48	25	23	37.62	48	....	....	....	....
" 16th "	Miss M. A. Allen.....	1st "	1,440	186½	47	22	25	36.02	47	....	....	....	....
					696	352	344	.....	129	43	58	102	192
Bayview, 1st Division..	A. M. Cronkhite, B.A...	Academic....	2,880	186½	46	23	23	38.57	....	....	....	....	....
" 2nd " ..	D. R. McLean	2nd Class....	2,040	186½	45	20	25	40.39	....	....	....	....	....
" 3rd " ..	Miss C. A. MacIntyre . .	1st "	1,680	186½	45	25	20	39.11	....	....	....	....	29
" 4th " ..	Miss M. L. Starratt, B.A.	Academic....	1,320	186½	33	17	16	32.31	....	....	....	....	33
" 5th " ..	Miss P. M. Howard	2nd Class....	1,440	186½	42	18	24	39.00	....	....	....	41	1
" 6th " ..	Miss E. M. Johnson.....	2nd "	1,620	186½	41	19	22	37.78	....	....	22	19	....
" 7th " ..	Miss W. Bryant.....	2nd "	1,440	186½	44	23	21	39.33	....	44	....	.	....
" 8th " ..	Miss K. Laidlaw	2nd "	1,440	187	39	23	16	36.10	39	....	....	....	....
" 9th " ..	Miss G. Warner	1st "	1,620	187	33	24	9	30.32	33	....	....	....	....
" 10th " ..	Miss M. R. McGillivray..	2nd "	1,140	95	41	19	22	35.62	....	....	....	....	41
					409	211	198	.....	72	44	22	60	104
Beaconsfield, 1st Div..	F. J. Lawrence	1st "	2,760	186½	40	16	24	33.00	....	....	....	....	....
" 2nd " ..	Miss B. E. Rowan.... .	2nd "	1,380	186½	48	25	23	40.43	....	....	....	....	31
" 3rd " ..	Miss R. C. Henderson...	1st "	1,100	186½	46	19	27	41.43	....	....	....	....	46
" 4th " ..	Miss L. M. O'Connell....	2nd "	1,100	186½	43	21	22	40.22	....	....	....	6	37
" 5th " ..	Miss F. Stern.....	2nd "	1,320	186½	46	23	23	39.41	....	....	1	45	....
" 6th " ..	Miss L. Cairns.....	2nd "	1,680	186½	46	22	24	38.47	39	7	....	....	....
" 7th " ..	Miss E. C. Tait	2nd "	1,140	185½	42	19	23	36.01	....	16	26	....	....
" 8th " ..	Miss M. Abercrombie ...	2nd "	1,200	186½	41	25	16	33.33	41	....	....	....	....
" 9th " ..	Miss M. A. McLeod	2nd "	1,100	150½	42	23	19	30.83	....	....	14	28	....
					394	193	201	.....	80	23	41	79	114
Central, 1st Division ..	W. G. Gourlie, B.A.	Academic....	3,360	186½	34	21	13	26.28	....	....	....	....	....
" 2nd " ..	H. D. Herd.	"	2,280	186½	43	21	22	39.54	....	....	....	....	....
" 3rd " ..	Miss G. MacKenzie.....	1st Class ..	1,680	186½	42	25	17	36.50	....	....	....	....	....
" 4th " ..	Miss E. Weismiller.....	2nd "	1,260	186½	42	26	16	33.27	....	....	....	....	2
" 5th " ..	Miss W. A. Grant.	2nd "	1,440	186½	44	21	23	33.11	....	....	....	....	44
" 6th " ..	Miss E. Cook	1st "	1,680	186½	43	22	21	34.65	....	....	....	....	43
" 7th " ..	Miss M. H. Moody, B.A..	Academic....	1,680	186½	40	21	19	32.12	....	....	....	....	40
" 8th " ..	Miss G. H. Patrick.....	3rd Class....	1,380	186½	48	35	13	37.31	....	....	....	27	21
" 9th " ..	Miss E. M. Boyer	2nd "	1,320	186½	50	23	27	34.72	....	....	....	50	....
" 10th " ..	Miss M. E. Prescott.....	2nd "	1,260	186½	39	27	12	35.15	....	....	2	37	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		
																				$ cts.	$ cts.
8	...	19	19	19	19	19	19	19	8	19	7	12	.....	....	...	...	...	..	..	.....	.....
....	...	20	20	20	20	9	.....	.....	....	20	....	....	....	....	...	...	...	..	..	.....	.....
....	...	.....	.....	.....	.. ..	.....	.....	.....	...	...	...	...	....	....	...	...	...	..	..	.....	.....
8	...	39	39	39	39	28	19	19	8	39	7	12	.....	....	...	...	...	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	17	18	35	...	...	...	...	..	..	244,988 15	1,144,420 96
46	...	46	46	46	46	46	46	46	46	46	25	21	46	....	...	...	...	..	..	.....	.....
....	...	49	49	49	49	49	49	49	....	49	....	24	49	....	...	...	...	..	..	.....	.....
....	...	36	36	36	36	36	36	36	....	36	.....	...	36	....	...	...	...	..	..	.....	.....
....	...	53	53	53	53	53	53	53	....	53	.....	....	53	..	...	...	...	..	..	.....	.....
....	...	47	47	47	47	47	.....	.....	....	47	.....	....	47	....	...	...	...	..	..	.....	.....
....	...	33	33	33	33	33	.....	.....	....	33	...	....	33	....	...	...	...	..	..	.....	.....
...	...	52	52	52	52	.....	.....	.....	....	52	.....	...	52	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	....	.....	.....	....	44	.....	...	44	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	.....	....	45	....	...	...	...	..	..	.....	.....
....	...	50	50	50	50	.....	.....	.....	....	50	.....	...	50	....	...	...	...	..	..	.....	.....
81	...	490	490	490	490	299	219	219	81	490	42	63	490	....	...	...	...	..	..	.....	.....
34	...	34	34	34	34	34	34	34	34	34	11	23	34	....	...	...	...	..	..	.....	.....
36	...	36	36	36	36	36	36	36	36	36	13	23	36	....	...	...	...	..	..	.....	.....
38	...	38	38	38	38	38	38	38	38	38	23	15	38	....	...	...	...	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	24	17	41	....	...	...	...	..	..	.....	.....
23	..	41	41	41	41	41	41	41	23	41	24	17	41	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	20	24	44	....	...	...	...	..	..	.....	.....
....	...	40	40	40	40	40	40	40	....	40	.....	....	40	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	41	41	41	....	41	.....	....	41	....	...	...	...	..	..	.....	.....
....	...	49	49	49	49	49	49	49	....	49	...	....	49	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	41	.....	.....	....	41	.....	....	41	....	...	...	...	..	..	.....	.....
...	...	40	40	40	40	39	.....	....	....	40	.....	....	40	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	22	.....	.....	....	44	.....	....	44	....	...	...	...	..	..	.....	.....
....	...	57	57	57	57	.....	.....	.....	....	57	.....	....	57	....	...	...	...	..	..	.....	.....
....	...	55	55	55	55	.....	.....	.....	....	55	.....	....	55	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	.....	....	48	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	.....	....	47	....	...	...	...	..	..	.....	.....
172	...	696	696	696	696	466	364	364	172	696	115	119	696	...	...	...	...	..	..	.....	.....
46	...	46	46	46	46	46	46	46	46	46	23	23	46	....	...	...	...	..	..	.....	.....
45	...	45	45	45	45	45	45	45	45	45	20	25	45	....	...	...	...	..	..	.....	.....
16	...	45	45	45	45	45	45	45	16	45	25	20	45	...	...	...	...	..	..	.....	.....
....	...	33	33	33	33	33	33	33	....	33	17	16	33	....	...	...	...	..	..	.....	.....
...	...	42	42	42	42	42	1	1	....	42	.....	....	42	....	...	...	...	..	..	.....	.....
. ..	...	41	41	41	41	19	.....	.....	....	41	.....	....	41	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	.....	....	44	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	.....	....	39	....	...	...	...	..	..	.....	.....
....	...	33	33	33	33	.....	.....	.....	....	33	.....	....	33	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	41	41	41	...	41	...	....	41	...	...	...	...	..	..	.....	.....
107	...	409	409	409	409	271	211	211	107	409	85	84	409	....	...	...	...	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	16	24	40	....	...	...	...	..	..	.....	.....
17	...	48	48	48	48	48	48	48	17	48	25	23	48	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	46	46	46	....	46	...	....	46	....	...	...	...	..	..	.....	.....
..	...	43	43	43	43	43	37	37	....	43	.....	....	43	...	...	...	...	..	..	.....	.....
....	...	46	46	46	46	45	.....	.....	....	46	.....	....	46	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	.....	....	46	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	.....	....	42	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	.....	...	41	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	28	.....	.....	....	42	.....	....	42	....	...	...	...	..	..	.....	.....
57	...	394	394	394	394	250	171	171	57	394	41	47	394	...	...	...	...	..	..	.....	.....
34	...	34	34	34	34	34	34	34	34	34	21	13	34	....	...	...	...	..	..	.....	.....
43	...	43	43	43	43	43	43	43	43	43	21	22	43	...	...	...	...	..	..	.....	.....
42	...	42	42	42	42	42	42	42	42	42	25	17	42	....	...	...	...	..	..	.....	.....
40	...	42	42	42	42	42	42	42	40	42	26	16	42	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	21	23	44	....	...	...	...	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	.....	....	43	....	...	...	...	..	..	.....	.....
...	...	40	40	40	40	40	40	40	....	40	.....	....	40	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	48	21	21	....	48	.....	....	48	....	...	...	...	..	..	.....	.....
....	...	50	50	50	50	50	....	.....	....	50	.....	....	50	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	37	.....	...	....	39	.....	....	39	....	...	...	...	..	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver—*Continued.*			$										
Central, 11th Division	Miss J. W. Adam	1st Class	1,200	186½	41	26	15	35.66	....	....	41	...	....
" 12th "	Miss E. Wickett, B.A.	Academic	1,680	186½	46	31	15	36.10	2	44	....	....	....
" 13th "	Miss I. M. Scott	1st Class	1,260	186½	33	20	13	31.79	33	....	...	....	....
" 14th "	Miss A. B. Elmsley	1st "	1,680	186½	50	26	24	29.89	50	....	....	....	....
" 15th "	Miss C. M. Smith	1st "	1,680	186½	48	23	25	30.99	48	....	....	....	....
" 16th "	Wm. Flett, M.A.	Academic	1,800	186½	72	72	.....	37.27	....	....	....	36	23
" 17th "	J. A. Stuart, B.A.	"	1,800	186½	104	104	.....	66.62	53	41	7	3	....
" 18th "	Miss L. E. Frith	2nd Class	1,740	186½	17	8	9	11.94	....	2	1	8	6
" 19th "	Miss E. Millar	2nd "	1,320	186½	29	14	15	20.44	7	3	4	5	7
" 20th "	Miss M. A. Amos	2nd "	1,680	41½	...	.....	.....	4.09	....	....	...	....	....
" 21st "	E. S. Grant	1st "	1,320	32½	68	68	...	51.01	18	29	21	....	....
					933	634	299	.....	211	119	76	166	186
Children's Home, 1st D.	Mrs. J. M. H. Harding	2nd "	1,800	185	31	17	14	24.68	....	...	....	....	20
" 2nd "	Miss A. Macpherson	2nd "	1,100	185	31	16	15	25.35	....	....	....	....	31
" 3rd "	Miss F. MacKechnie	2nd "	1,140	185	28	16	12	27.26	....	....	12	16	....
" 4th "	Miss J. Sheepy	3rd "	1,680	185	43	23	20	34.11	35	8	....	....	....
					133	72	61	....	35	8	12	16	51
Dawson, Principal	J. R. Pollock	1st "	3,360	....	...	....	....	....	....	....	....	....	....
" 1st Division	Miss N. Bain, M.A	1st "	1,680	186½	32	31	1	31.51	....	....	....	....	....
" 2nd "	Miss L. M. Howell	Academic	1,500	186½	42	.....	42	35.98	....	....	....	....	....
" 3rd "	P. L. McCreery	"	2,040	186½	34	19	15	30.39	....	....	....	....	....
" 4th "	H. Northrop, B.A.	"	1,260	186½	44	18	26	34.66	....	....	....	....	...
" 5th "	Miss C. M. Sterns, B.A.	"	1,680	186½	41	19	22	34.77	....	....	....	....	....
" 6th "	Miss M. E. MacKenzie,	"	1,680	186½	44	23	21	35.06	....	....	....	....	....
" 7th "	Miss E. Ross [B.A.	1st Class	1,680	186½	40	19	21	32.26	....	....	....	....	....
" 8th "	Miss L. Brundrett	2nd "	1,380	186½	45	25	20	34 44	....	....	....	....	45
" 9th "	Miss B. M. Bigney	1st "	1,680	186½	43	18	25	36.70	....	....	....	....	43
" 10th "	Miss J. McHeffey	2nd "	1,380	186½	46	22	24	40.55	....	...	...	....	46
" 11th "	Miss A. M. Lewis	2nd "	1,740	186½	27	16	11	22.84	....	....	....	7	11
" 12th "	Miss C. L. Murray	1st "	1,620	186½	41	14	27	31.57	....	....	2	36	3
" 13th "	Miss J. M. Abel	2nd "	1,500	186½	36	17	19	31.99	....	....	....	....	36
" 14th "	Miss M. A. Williams	1st "	1,320	186½	36	18	18	34.13	....	....	....	....	36
" 15th "	Miss I. V. Lawrence	2nd "	1,100	186½	42	24	18	33.77	....	....	...	2	40
" 16th "	Miss R. Tanner	2nd "	1,560	186½	38	12	26	37.79	....	....	....	38	....
" 17th "	Miss F. A. Chandler	2nd "	1,560	186½	43	25	18	34.76	....	....	....	43	....
" 18th "	Miss E. C. Hunter, B.A.	Academic	1,140	186½	37	16	21	34.27	....	....	....	37	....
" 19th "	Mrs. A. L. Pattison	Temporary	1,100	186½	37	20	17	32.18	....	....	37	....	....
" 20th "	Miss H. Loudon	Interim	1,140	186½	40	25	15	34.87	....	1	39	..	....
" 21st "	Miss J. I. Wilson	2nd Class	1,440	186½	35	23	12	33.63	1	34	....	....	....
" 22nd "	Miss S. G. Gosse	2nd "	1,200	186½	36	22	14	29.69	2	34	....	....	..
" 23rd "	Miss D. G. Chandler	2nd "	1,500	186½	41	28	13	36.82	41	....	....	....	....
" 24th "	Miss M. I. Coughlin	2nd "	1,140	186½	42	17	25	31.55	42	....	....	....	....
" 25th "	Miss G. C. Maclean	3rd "	1,260	186½	16	10	6	10.93	....	....	....	4	6
" 26th "	Mrs. D. Johnston	1st "	1,380	96	38	20	18	29.36	38	....	....	....	....
" 27th "	Miss J. N. Laursen	1st "	1,680	96	42	24	18	34.66	42	....	....	....	....
					1038	525	513	.....	166	69	78	167	266
Charles Dickens, 1st D.	J. Dunbar, B.A.	Academic	2,760	186½	38	20	18	32.97	....	....	....	....	....
" 2nd "	F. T. Marriage	1st Class	2,160	186½	42	17	25	38.59	....	....	....	....	....
" 3rd "	Miss S. A. Fountain, B.A.	Academic	1,320	186½	37	16	21	33.86	....	....	....	....	37
" 4th "	Miss I. Crowe	2nd Class	1,100	186½	45	23	22	41.66	....	....	....	....	45
" 5th "	Miss H. McNeill	1st "	1,320	186½	41	20	21	39.43	....	....	....	11	30
" 6th "	Miss J. McGown	2nd "	1,100	186½	44	25	19	38.57	....	....	44	....	....
" 7th "	Miss G. T. Hughes	1st "	1,140	186½	37	12	25	35.46	....	37	....	....	....
" 8th "	Miss E. B. Nicholson	2nd "	1,200	186½	41	19	22	36.89	41	....	....	....	....
" 9th "	Miss A. L. Martyn	2nd "	1,100	186½	28	16	12	27.52	28	....	....	....	....
" 10th "	Miss I. C. Galt	2nd "	1,200	95	41	21	20	38.01	....	...	....	41	....
					394	189	205	.....	69	37	44	52	112
Fairview, 1st Division.	A. Clark	1st "	3,360	185½	39	18	21	35.62	....	....	....	....	....
" 2nd "	S. J. Bryant	1st "	2,280	185½	44	17	27	36.42	....	....	....	....	....
" 3rd "	Miss M. P. Sinclair	2nd "	1,680	185½	35	18	17	31.70	...	....	....	....	....
" 4th "	Miss O. B. Mackenzie	2nd "	1,260	185½	37	22	15	32.11	....	....	....	....	16
" 5th "	Miss B. A. Hillis	2nd "	1,100	185½	49	14	35	39.33	....	..	....	....	49
" 6th "	Miss M. L. Palmer	2nd "	1,140	185½	43	17	26	38.38	....	....	....	....	43
" 7th "	Miss A. G. Perkins	1st "	1,620	185½	45	25	20	38.52	....	....	....	24	21
" 8th "	Miss A. A. Greggor, B.A.	Academic	1,320	185½	41	21	20	35.37	....	....	....	41	....
" 9th "	Miss E. E. Fletcher	2nd Class	1,680	185½	43	20	23	36.19	....	10	33	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			
																					$ cts.	$ cts.
....	...	41	41	41	41	.....	.....	.....	..	41	....	....	41	....	....	..	...	..	..		.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	.....	....	46	....	....	....	...	....	....		.....	.....
....	...	33	33	33	33	.....	.....	.....	....	33	.....	...	33	....	....	....	...	....	....		.....	.....
....	..	50	50	50	50	.....	.....	.....	....	50	.....	....	50	....	....	....	...	....	....		.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	...	...	48	....	....	....	...	....	....		.....	.....
13	...	72	72	72	72	72	36	36	13	72	.....	...	72	....	....	....	...	....	....		.....	.....
....	...	104	104	104	104	3	.....	.....	....	104	.....	...	104	....	....	....	...	....	....		.....	.....
..	...	17	17	17	17	14	6	6	....	17	8	9	17	....	....	....	...	....	....		.....	.....
3	...	29	29	29	29	15	10	10	3	29	4	2	29	....	....	....	...	....	....		.....	.....
...	..	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	....	.....	....	....	....	...	....	....		.....	.....
....	...	68	68	68	68	.....	.....	.....	....	68	..	....	68	....	....	....	...	....	....		.....	.....
175	...	933	933	933	933	527	361	361	175	933	126	102	933	....	....	....	...	....	....		.....	.....
11	...	31	31	31	31	31	31	31	11	31	17	14	31	....	....	....	...	....	....		.....	.....
...	...	31	31	31	31	31	31	31	...	31	16	15	31	....	....	....	...	....	....		.....	.....
....	...	28	28	28	28	16	.....	.....	....	28	....	....	28	....	....	....	...	....	....		.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	....	....	...	....	....		.....	.....
11	...	133	133	133	133	78	62	62	11	133	33	29	133	....	....	....	...	....	....		.....	.....
...	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	...	....	....		.....	.....
32	...	32	32	32	32	32	32	32	32	32	31	1	32	....	....	....	...	....	....		.....	.....
42	...	42	42	42	42	42	42	42	42	42	....	42	42	....	....	....	...	....	....		.....	.....
34	...	34	34	34	34	34	34	34	34	34	19	15	34	....	....	....	...	....	....		.....	.....
44	...	44	44	44	44	44	44	44	44	44	18	26	44	....	....	....	...	....	....		.....	.....
41	...	41	41	41	41	41	41	41	41	41	19	22	41	....	....	....	...	....	....		.....	.....
44	...	44	44	44	44	44	44	44	44	44	23	21	44	....	....	....	...	....	....		.....	.....
40	...	40	40	40	40	40	40	40	40	40	19	21	40	....	....	....	...	....	....		.....	.....
...	...	45	45	45	45	45	45	45	....	45	25	20	45	....	....	....	...	....	....		.....	.....
....	...	43	43	43	43	43	43	43	....	43	18	25	43	....	....	....	...	....	....		.....	.....
....	...	46	46	46	46	46	46	46	....	46	21	24	46	....	....	....	...	....	....		.....	.....
9	...	27	27	27	27	27	20	20	9	27	....	....	27	....	....	....	...	....	....		.....	.....
...	...	41	41	41	41	39	3	3	....	41	....	....	41	....	....	....	...	....	....		.....	.....
....	...	36	36	36	36	36	36	36	....	36	....	....	36	....	....	....	...	....	....		.....	.....
...	...	36	36	36	36	36	36	36	....	36	....	....	36	....	....	....	...	....	....		.....	.....
...	...	42	42	42	42	42	40	40	....	42	....	....	42	....	....	....	...	....	....		.....	.....
....	...	38	38	38	38	38	.....	.....	....	38	....	....	38	....	....	....	...	....	....		.....	.....
....	..	43	43	43	43	43	.....	.....	....	43	....	....	43	....	....	....	...	....	....		.....	.....
....	...	37	37	37	37	37	.....	.....	....	37	....	....	37	....	....	....	...	....	....		.....	.....
...	...	37	37	37	37	.....	.....	.....	....	37	...	....	37	....	....	....	...	....	....		.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	40	....	....	....	...	....	....		.....	.....
....	...	35	35	35	35	.....	.....	.....	....	35	....	...	35	....	....	....	...	....	....		.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	....	....	36	....	....	....	...	....	....		.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	....	....	....	...	....	....		.....	.....
...	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	...	....	....		.....	.....
6	...	16	16	16	16	16	12	12	6	16	10	6	16	...	....	....	...	....	....		.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	....	....	...	....	....		.....	.....
...	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	...	....	....		.....	.....
292	...	1038	1038	1038	1038	725	558	558	292	1038	203	223	1038	....	....	....	...	....	....		.....	.....
38	...	38	38	38	38	38	38	38	38	38	20	18	38	....	....	....	...	....	....		.....	.....
42	...	42	42	42	42	42	42	42	42	42	17	25	42	....	....	....	...	....	....		.....	.....
....	...	37	37	37	37	37	37	37	....	37	16	21	37	....	....	....	...	....	....		.....	.....
..	...	45	45	45	45	45	45	45	....	45	....	....	45	....	....	....	...	....	....		.....	.....
....	...	41	41	41	41	41	30	30	....	41	....	....	41	....	....	....	...	....	....		.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	....	....	...	....	....		.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	....	....	...	....	....		.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	....	....	....	...	....	....		.....	.....
....	...	28	28	28	28	.....	.....	.....	....	28	....	....	28	....	....	....	...	....	....		.....	.....
..	...	41	41	41	41	41	.....	.....	....	41	....	....	41	....	....	....	...	....	....		.....	.....
80	...	394	394	394	394	244	192	192	80	394	53	64	394	....	....	....	...	....	....		.....	.....
39	...	39	39	39	39	39	39	39	39	39	18	21	39	....	....	....	...	....	....		.....	.....
44	...	44	44	44	44	44	44	44	44	44	17	27	44	....	....	....	...	....	....		.....	.....
35	...	35	35	35	35	35	35	35	35	35	18	17	35	....	....	....	...	....	....		.....	.....
21	...	37	37	37	37	37	37	37	21	37	22	15	37	....	....	....	...	....	....		.....	.....
....	...	49	49	49	49	49	49	49	...	49	26	23	49	...	....	....	...	....	....		.....	.....
...	...	43	43	43	43	43	43	43	..	43	....	....	43	....	....	....	...	....	....		.....	.....
..	..	45	45	45	45	45	21	21	....	45	....	...	45	....	....	....	...	....	....		.....	.....
....	...	41	41	41	41	41	.....	.....	....	41	....	....	41	....	....	....	...	....	....		.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	....	....	...	....	....		.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver—*Continued.*			$										
Fairview, 10th Division.	Miss C. Macdonald	2nd Class	1,680	185½	50	31	19	33.75	16	34	...	....	....
" 11th "	Miss L. G. Bollert, B.A.	Academic	1,440	185½	54	26	28	36.32	54	....	....	....	....
" 12th "	Miss E. Painter	2nd Class	1,680	185½	39	26	13	31.15	22	8	9	....	....
" 13th "	Mrs. J. P. Leach	1st "	1,740	176½	12	10	2	11.95	....	....	....	1	5
" 14th "	Miss H. A. Brown	2nd "	1,740	185½	15	9	6	11.24	....	....	....	5	10
					546	274	272	.....	92	52	42	71	144
Franklin, 1st Division.	H. B. Fitch, B.A.	Academic	2,880	186½	42	20	22	37.55	..	....	....	....	....
" 2nd "	Miss J. F. Parkes	2nd Class	1,380	186½	43	15	28	38.37	....	....	....	....	43
" 3rd "	Miss L. A. Brock	2nd "	1,100	186½	51	32	19	43.52	....	....	....	....	51
" 4th "	Miss A. B. G. Herd	2nd "	1,320	186½	52	23	29	46.42	....	....	....	52	....
" 5th "	Miss A. E. Pye	2nd "	1,140	186½	50	22	28	43 19	1	25	24	....	....
" 6th "	Mrs. D. Bradbury	2nd "	1,380	186½	43	20	23	37.62	43	....	....	....	....
" 7th "	Miss D. V. McCusker	2nd "	1,100	94½	33	8	25	29.75	33	....	....	....	....
					314	140	174	.....	77	25	24	52	94
Simon Fraser, 1st Div.	E. Caspell	1st Class	3,360	186½	29	11	18	26.69	....	....	....	....	....
" 2nd "	C. B. Crowe	Academic	2,280	186½	40	16	24	33.56	....	....	....	....	....
" 3rd "	H. T. Gamey	1st Class	1,800	186½	41	15	26	35.76	....	....	....	....	....
" 4th "	Miss G. F. Madden	2nd "	1,140	186½	34	19	15	33.71	....	....	....	....	....
" 5th "	Miss N. M. Jones	2nd "	1,320	186½	46	19	27	41.57	....	....	....	....	46
" 6th "	Miss J. R. Hardwick	1st "	1,320	186½	39	19	20	33.72	....	....	....	....	39
" 7th "	Miss C. MacB. Allardyce	2nd "	1,100	186½	50	25	25	40.74	....	....	....	....	50
" 8th "	Miss E. M. Cowan	2nd "	1,680	186½	51	22	29	42.01	..	....	....	....	51
" 9th "	Miss M. S. Neill	2nd "	1,440	186½	50	22	28	42.29	....	....	....	50	....
" 10th "	Miss C. M. Leah	1st "	1,260	186½	48	26	22	38.44	....	....	....	48	....
" 11th "	Miss I. A. Bodie	Academic	1,500	186½	44	21	23	35.48	....	13	31	....	....
" 12th "	Miss C. Chadwick	1st Class	1,200	186½	43	26	17	38.54	....	43	....	....	....
" 13th "	Miss S. H. Munro	Academic	1,500	186½	44	26	18	35.42	31	13	....	....	....
" 14th "	Miss D. M. Betts	2nd Class	1,260	186½	43	25	18	33.04	43	....	....	....	....
" 15th "	Miss L. Ford	2nd "	1,680	186½	39	19	20	31.87	39	....	....	....	....
" 16th "	Miss K. E. Buckerfield	2nd "	1,440	186½	13	7	6	10.97	2	....	....	7	4
					654	318	336	....	115	69	31	105	190
General Gordon, 1st D.	H. B. King	Academic	3,360	184½	45	25	20	42.41	....	....	....	....	....
" 2nd "	G. P. Young	1st Class	2,280	184½	45	26	19	43.22	....	....	....	....	....
" 3rd "	Miss M. A. Jopling	1st "	1,200	184½	53	30	23	39.56	....	....	....	....	27
" 4th "	Miss E. Bossons	2nd "	1,140	184½	51	21	30	45.79	....	....	....	....	51
" 5th "	Mrs. E. B. S. Neill	1st "	1,680	184½	49	32	17	44.75	....	....	....	....	49
" 6th "	Miss H. M. Cahill	1st "	1,680	184½	43	26	17	35.79	....	....	....	43	....
" 7th "	Miss S. Mills	1st "	1,680	184½	40	20	20	38.11	....	....	11	29	....
" 8th "	Miss C. E. Ross	Temporary	1,260	184½	44	24	20	34.21	....	8	36	....	....
" 9th "	Miss A. S. Fisher	2nd Class	1,260	184½	40	23	17	33.16	31	9	..	....	....
" 10th "	Miss C. G. Heaslip	2nd "	1,200	185½	43	23	20	40.66	43	....	....	....	....
" 11th "	Miss H. Roy	Academic	1,200	95	35	19	16	27.89	35	....	....	....	....
					488	269	219	.....	109	17	47	72	127
Grandview, 1st Div.	V. Z. Manning, B.A.	"	3,000	186½	35	19	16	31.09	....	....	....	....	....
" 2nd "	W. L. Rand, B.A.	"	2,280	186½	38	23	15	32.43	..	....	....	....	....
" 3rd "	Miss M. Taylor	1st Class	1,560	186½	46	22	24	41.39	....	....	....	....	....
" 4th "	J. Beath	2nd "	1,800	186½	48	22	26	37.03	....	....	....	....	23
" 5th "	Miss J. C. Turner	1st "	1,620	186½	46	24	22	39.86	....	....	....	....	46
" 6th "	Miss A. C. Leslie	2nd "	1,100	186½	45	17	28	38.19	....	....	....	....	45
" 7th "	Miss I. R. Russell	2nd "	1,500	186½	49	28	21	42.21	....	....	....	....	49
" 8th "	Miss M. Annand	1st "	1,620	186½	41	23	18	38.97	....	....	....	41	....
" 9th "	Miss E. L. George	2nd "	1,680	186½	45	21	24	41.18	....	....	....	45	....
" 10th "	Mrs. N. L. McCarty	2nd "	1,260	186½	45	20	25	39.20	....	....	23	22	....
" 11th "	Miss E. M. Simpson	2nd "	1,380	186½	45	25	20	42.22	19	26	....	....	....
" 12th "	Miss L. Bampton	1st "	1,440	186	43	20	23	41.91	43	....	....	....	....
" 13th "	Miss R. Willson	2nd "	1,140	187	45	26	19	41.06	45	....	....	....	....
" 14th "	Miss H. M. Graham	2nd "	1,100	95	45	23	22	39.52	....	16	29	....	....
					616	313	303	.....	107	42	52	108	163
Hastings, 1st Division.	C. C. Chute	1st Class	3,240	185½	40	14	26	33.24	....	....	....	....	....
" 2nd "	C. Logan	1st "	2,040	185½	43	27	16	38.70	....	....	....	....	....
" 3rd "	Miss M. E. Maynard, B.A.	Academic	1,320	185½	46	18	28	40.67	....	....	....	....	....
" 4th "	Miss E. Potter	2nd Class	1,100	185½	52	19	33	45.21	....	....	....	....	18
" 5th "	Miss M. Cameron	2nd "	1,200	185½	48	20	28	43.56	....	....	....	....	48
" 6th "	Miss M. E. MacMillan	2nd "	1,440	185½	44	16	28	40.72	....	....	....	....	44

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																							
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
....	...	50	50	50	50	.....	.....	.....	....	50	....	....	50	....	...	...	....	..	..	.....	.....
....	...	54	54	54	54	.....	.....	.....	....	54	....	....	54	....	...	...	....	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	..	....	39	....	...	...	....	..	..	.....	.....
6	...	12	12	12	12	12	11	11	6	12	....	....	12	....	...	...	....	..	..	.....	.....
....	...	15	15	15	15	15	10	10	....	15	9	6	15	....	...	...	....	..	..	.....	.....
145	...	546	546	546	546	360	289	289	145	546	110	109	546	....	...	...	....	..	..	.....	.....
42	...	42	42	42	42	42	42	42	42	42	20	22	42	....	...	...	....	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	15	28	43	....	...	...	....	..	..	.....	.....
....	...	51	51	51	51	51	51	51	....	51	....	....	51	....	...	...	....	..	..	.....	.....
....	...	52	52	52	52	52	.....	.....	....	52	....	....	52	....	...	...	....	..	..	.....	.....
....	...	50	50	50	50	..	.....	.....	....	50	...	....	50	....	...	...	....	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	...	...	....	..	..	.....	.....
....	...	33	33	33	33	.....	.....	.....	....	33	....	....	33	....	...	...	....	..	..	.....	.....
42	...	314	314	314	314	188	136	136	42	314	35	50	314	....	...	...	....	..	..	.....	.....
29	...	29	29	29	29	29	29	29	29	29	11	18	29	....	...	...	....	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	16	24	40	....	...	...	....	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	15	26	41	....	...	...	....	..	..	.....	.....
34	...	34	34	34	34	34	34	34	34	34	19	15	34	....	...	...	....	..	..	.....	.....
....	...	46	46	46	46	46	46	46	....	46	19	27	46	....	...	...	....	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	19	20	39	....	...	...	....	..	..	.....	.....
....	...	50	50	50	50	50	50	50	....	50	....	....	50	....	...	...	....	..	..	.....	.....
....	...	51	51	51	51	51	51	51	....	51	...	..	51	....	...	...	....	..	..	.....	.....
....	...	50	50	50	50	50	.....	.....	....	50	....	....	50	....	...	...	....	..	..	.....	.....
....	...	48	48	48	48	48	.....	.....	....	48	....	....	48	....	...	...	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	...	...	....	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	...	...	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	...	....	44	....	...	...	....	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	...	....	43	....	...	...	....	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	...	...	....	..	..	.....	.....
....	...	13	13	13	13	11	4	4	....	13	7	6	13	....	...	...	....	..	..	.....	.....
144	...	654	654	654	654	439	334	334	144	654	106	136	654	....	...	...	....	..	..	.....	.....
45	...	45	45	45	45	45	45	45	45	45	25	20	45	....	...	...	....	..	..	.....	.....
45	...	45	45	45	45	45	45	45	45	45	26	19	45	....	...	...	....	..	..	.....	.....
26	..	53	53	53	53	53	53	53	26	53	30	23	53	....	...	...	....	..	..	.....	.....
....	...	51	51	51	51	51	51	51	..	51	21	30	51	....	...	...	....	..	..	.....	.....
....	...	49	49	49	49	49	49	49	...	49	...	....	49	....	...	...	....	..	..	.....	.....
....	...	43	43	43	43	43	.....	.....	...	43	....	....	43	....	...	...	....	..	..	.....	.....
....	...	40	40	40	40	29	.....	.....	....	40	...	....	40	....	...	...	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	...	...	....	..	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	..	....	40	....	...	...	....	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	...	...	....	..	..	.....	.....
....	...	35	35	35	35	....	.....	.....	....	35	....	....	35	....	...	...	....	..	..	.....	.....
116	...	488	488	488	488	315	243	243	116	488	102	92	488	....	...	...	....	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	19	16	35	...	...	...	....	..	..	.....	.....
38	...	38	38	38	38	38	38	38	38	38	23	15	38	....	...	...	....	..	..	.....	.....
46	...	46	46	46	46	46	46	46	46	46	22	24	46	....	...	...	....	..	..	.....	.....
25	...	48	48	48	48	48	48	48	25	48	22	26	48	....	...	...	....	..	..	.....	.....
....	...	46	46	46	46	46	46	46	....	46	24	22	46	....	...	...	....	..	..	.....	.....
....	...	45	45	45	45	45	45	45	....	45	....	....	45	....	...	...	....	..	..	.....	.....
....	...	49	49	49	49	49	49	49	....	49	...	....	49	....	...	...	....	..	..	.....	.....
....	...	41	41	41	41	41	.....	.....	....	41	....	....	41	....	...	...	....	..	..	.....	.....
....	...	45	45	45	45	45	...	.....	....	45	....	....	45	....	...	...	....	..	..	.....	.....
....	...	45	45	45	45	22	.....	.....	....	45	....	....	45	....	...	...	....	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	....	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	...	...	....	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	....	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	....	..	..	.....	.....
144	..	616	616	616	616	415	307	307	144	616	110	103	616	....	...	...	....	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	14	26	40	....	...	...	....	..	..	.....	.....
43	...	43	43	43	43	43	43	43	43	43	27	16	43	....	...	...	....	..	..	.....	.....
46	...	46	46	46	46	46	46	46	46	46	18	28	46	....	...	...	....	..	..	.....	.....
34	...	52	52	52	52	52	52	52	34	52	19	33	52	....	...	...	....	..	..	.....	.....
....	...	48	48	48	48	48	48	48	....	48	20	28	48	....	...	...	....	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	....	....	44	....	...	...	....	..	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver—*Continued.*			$										
Hastings, 7th Division.	Miss A. M. Balkwell.....	2nd Class....	1,680	185½	43	19	24	40.01	....	....	....	43	....
" 8th "	Miss M. A. Warner.....	2nd "	1,560	185½	49	21	28	39.18	....	....	....	49	....
" 9th "	Miss G. B. Wood.....	2nd "	1,200	185½	53	29	24	44.11	....	....	53	....	....
" 10th "	Miss E. Moscrop.....	1st "	1,200	185½	49	26	23	44.09	....	49	....	....	....
" 11th "	Miss M. K. Graham.....	2nd "	1,140	185½	47	31	16	42.94	47	....	....	....	....
" 12th "	Miss A. Hughes.....	1st "	1,100	185	36	15	21	32.47	36	....	....	....	....
" 13th "	Miss B. M. Coulter.....	2nd "	1,260	186	37	16	21	34.89	37	....	....	....	....
" 14th "	Miss C. P. Murray.....	2nd "	1,200	96	43	24	19	37.29	....	....	....	....	43
					630	295	335	....	120	49	53	92	153
Henry Hudson, 1st D.	F. C. Wilson, B.A.....	Academic....	3,360	186½	37	8	29	27.95	....	....	....	....	....
" 2nd "	A. E. Shearman.....	1st Class	2,280	186½	41	41	.....	35.86	....	....	....	....	....
" 3rd "	Miss F. I. Grant.....	2nd "	1,680	186½	36	12	24	35.20	....	....	....	....	....
" 4th "	Miss M. A. Sugget, B.A.	Academic....	1,320	186½	38	17	21	33.26	....	....	....	....	38
" 5th "	Miss M. Ferguson, B.A..	"	1,680	186½	38	22	16	37.60	....	....	....	....	38
" 6th "	Miss E. A. Middlemiss ..	2nd Class....	1,440	186½	41	23	18	36.82	....	....	....	....	41
" 7th "	Miss L. E. M. Collier ...	2nd "	1,140	186½	47	28	19	36.70	....	....	....	....	47
" 8th "	Miss E. Letson.....	1st "	1,020	186½	46	25	21	36.96	....	....	....	46	....
" 9th "	Miss G. E. MacDonald...	1st "	1,680	186½	44	18	26	36.37	....	....	....	44	....
" 10th "	Miss M. W. Stone.....	1st "	1,500	186½	44	29	15	37.07	....	....	44	....	....
" 11th "	Miss E. H. Reveley.....	2nd "	1,620	186½	41	20	21	36.28	....	41	....	....	....
" 12th "	Miss G. A. Patrick.....	2nd "	1,440	186½	45	22	23	38.10	45	....	....	....	....
" 13th "	Miss G. H. McManus....	2nd "	1,260	186½	45	23	22	37.30	45	....	....	....	....
" 14th "	Miss E. S. Snider.....	2nd " .	1,680	186½	49	29	20	41.46	49	....	....	....	....
" 15th "	Miss E. J. M. Sutherland	Academic....	1,200	186½	18	9	9	11.85	....	1	1	1	9
" 16th "	Miss I. C. Calbick.....	1st Class	1,320	186½	13	13	.....	11.24	....	4	4	5	....
" 17th "	Miss M. Copping, B.A...	Academic....	1,100	95	35	13	22	27.81	....	....	....	....	35
					658	352	306	.....	139	46	49	96	208
Kitsilano, 1st Division.	T. W. Woodhead.....	"	3,120	186½	42	20	22	36.41	....	....	....	....	....
" 2nd "	Miss E. M. Beckman	"	2,040	186½	33	17	16	31.11	....	....	....	....	....
" 3rd "	S. McEwan.....	"	1,740	186½	38	17	21	35.20	....	....	....	....	....
" 4th "	Miss G. E. Stevens	1st Class	1,500	186½	35	14	21	30.05	....	....	....	....	....
" 5th "	Miss N. K. Thompson...	Academic....	1,320	186½	38	20	18	35.14	....	....	....	....	38
" 6th "	Miss N. T. Stables.....	2nd Class....	1,680	186½	43	23	20	38.83	....	....	....	....	43
" 7th "	Miss M. F. Dawe.....	1st "	1,260	186½	40	22	18	37.64	....	....	....	....	40
" 8th "	Miss M. G. Peck.....	Academic....	1,140	186½	44	16	28	38.26	....	....	....	26	18
" 9th "	Miss A. L. Noble.....	1st Class	1,260	186½	52	23	29	34.26	....	....	25	27	....
" 10th "	Miss F. M. S. Howard,	Academic....	1,680	186½	47	25	22	38.20	....	33	14	....	....
" 11th "	Miss A. M. Duke..[B.A.]	2nd Class....	1,100	186½	36	15	21	35.43	30	6	....	....	....
" 12th "	Miss C. E. Stewart.....	1st "	1,620	186½	45	25	20	34.27	45	....	....	....	....
					493	237	256	.....	75	39	39	53	139
Livingstone, 1st Div...	C. R. Messinger, B.A....	Academic....	3,240	186½	40	22	18	35.26	....	....	....	....	....
" 2nd " ..	F. C. Boyes.....	1st Class	2,280	186½	40	22	18	35.68	....	....	....	....	....
" 3rd " ..	Miss V. M. Lewis.....	Academic....	1,380	186½	44	23	21	41.45	....	....	....	....	44
" 4th " ..	Miss M. R. Wilson	1st Class	1,680	186½	47	27	20	44.03	....	....	....	....	47
" 5th " ..	Miss G. E. Busby	2nd "	1,140	186½	46	28	18	42.16	....	....	....	....	46
" 6th " ..	Miss A. S. Gross	Academic....	1,140	186½	36	15	21	35.28	....	....	....	36	....
" 7th " ..	Miss M. B. F. Herd	2nd Class....	1,140	186½	47	21	26	40.12	....	....	1	46	....
" 8th " ..	Miss E. Baron	2nd "	1,680	186½	44	22	22	35.46	....	11	33	....	....
" 9th " ..	Miss K. N. Chasteney...	2nd "	1,100	184½	39	20	19	38.89	....	39	....	....	....
" 10th " ..	Miss A. M. McLean	2nd "	1,380	186½	42	17	25	35.37	42	....	....	....	....
" 11th " ..	Miss H. M. Thompson...	1st "	1,100	95	41	16	25	34.18	41	....	....	....	....
					466	233	233	....	83	50	34	82	137
Model, 1st Division....	F. H. Dobson, B.A.....	Academic....	3,510	186½	39	18	21	36.13	....	....	....	....	....
" 2nd "	W. J. Nesbitt.	1st Class	2,380	186½	42	20	22	38.96	....	....	....	....	....
" 3rd "	Miss A. Spencer.....	1st "	1,780	186½	44	20	24	39.18	....	....	....	....	....
" 4th "	Mrs. A. C. Huggard.....	1st "	1,780	186½	45	18	27	38.69	....	....	....	....	45
" 5th "	Miss E. C. Matheson....	2nd "	1,660	186½	40	24	16	36.26	....	....	....	....	40
" 6th "	Miss L. L. Smith, B.A...	Academic....	1,300	186½	42	19	23	35.43	....	....	....	....	42
" 7th "	Miss C. G. Langley.....	"	1,780	186½	45	23	22	35.32	....	....	....	....	45
" 8th "	Miss J. L. Campbell.....	1st Class	1,780	186½	47	31	16	38.38	....	....	....	47	....
" 9th "	Miss E. S. Brinton.....	1st "	1,720	186½	48	24	24	39.27	....	....	12	36	....
" 10th "	Mrs. K. Berry, B.A.....	Academic....	1,420	186½	49	27	22	39.72	....	18	31	....	....
" 11th "	Miss D. Cattell.....	1st Class ...	1,780	186½	46	16	30	38.71	11	35	....	....	....
" 12th "	Miss A. M. Litch.....	2nd "	1,480	186½	48	18	30	39.01	48	....	....	....	....
" 13th "	Miss J. E. R. Fisher.....	2nd "	1,780	181½	54	22	32	39.27	54	....	....	....	....
					589	280	309	.....	113	53	43	83	172

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																								
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
....	...	43	43	43	43	43	.....	.....	....	43	....	....	43	....	...	...	...	..	..	.....	.....
....	...	49	49	49	49	49	.....	.....	....	49	....	....	49	....	...	...	...	..	..	.....	.....
....	...	53	53	53	53	.....	.....	.....	....	53	....	....	53	....	...	...	...	..	..	.....	.....
....	...	49	49	49	49	.....	.....	.....	....	49	....	...	49	....	...	...	...	..	..	.....	.....
.	...	47	47	47	47	....	.....	.....	....	47	....	....	47	....	...	...	...	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	....	....	36	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	...	...	...	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	....	43	...	...	...	...	..	..	.....	.....
163	...	630	630	630	630	408	316	316	163	630	98	131	630	....	...	...	...	..	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	8	29	37	...	...	...	...	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	41	....	41	....	...	...	...	..	..	.....	.....
36	..	36	36	36	36	36	36	36	36	36	12	24	36	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	38	38	38	....	38	17	21	38	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	38	38	38	....	38	22	16	38	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	41	41	41	....	41	....	....	41	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	47	47	47	....	47	....	....	47	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	46	.....	.....	....	46	....	....	46	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	44	.....	.....	....	44	....	....	44	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	....	...	...	...	..	..	.....	.....
...	..	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	...	..	..	.....	.....
...	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	...	..	..	.....	.....
....	...	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	...	...	...	..	..	.....	.....
6	...	18	18	18	18	16	15	15	6	18	9	9	18	....	...	...	...	..	..	.....	.....
....	...	13	13	13	13	5	.....	.....	....	13	13	....	13	....	...	...	...	..	..	.....	.....
....	...	35	35	35	35	35	35	35	....	35	13	....	35	....	...	...	...	..	..	.....	.....
120	...	658	658	658	658	424	328	328	120	658	135	99	658	....	...	...	...	..	..	.....	.....
42	...	42	42	42	42	42	42	42	42	42	20	22	42	....	...	...	...	..	..	.....	.....
33	...	33	33	33	33	33	33	33	33	33	17	16	33	....	...	...	...	..	..	.....	.....
38	...	38	38	38	38	38	38	38	38	38	17	21	38	....	...	...	...	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	14	21	35	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	38	38	38	....	38	20	18	38	..	...	...	...	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	....	43	....	...	...	...	..	..	.....	.....
....	...	40	40	40	40	40	40	40	....	40	....	....	40	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	44	18	18	....	44	...	....	44	....	...	...	...	..	..	.....	.....
....	...	52	52	52	52	27	.....	.....	....	52	....	....	52	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	.. ..	.....	.....	....	47	....	....	47	....	...	...	...	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	....	....	36	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	...	..	..	.....	.....
148	...	493	493	493	493	340	287	287	148	493	88	98	493	....	...	...	...	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	22	18	40	....	...	...	...	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	18	22	40	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	23	21	44	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	47	47	47	....	47	....	....	47	....	...	...	...	..	..	.....	.....
...	...	46	46	46	46	46	46	46	....	46	....	....	46	....	...	...	...	..	..	.....	.....
....	...	36	36	36	36	36	.....	.....	....	36	....	....	36	....	...	...	...	..	..	.....	.....
...	...	47	47	47	47	46	.....	.....	....	47	....	....	47	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	...	...	...	...	..	..	.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	....	...	...	...	..	..	.....	.....
80	...	466	466	466	466	299	217	217	80	466	63	61	466	...	...	...	...	..	..	.....	.....
39	...	39	39	39	39	39	39	39	39	39	18	21	39	....	...	...	...	..	..	.....	.....
42	...	42	42	42	42	42	42	42	42	42	20	22	42	....	...	...	...	..	..	.....	.....
44	...	44	44	44	44	44	44	44	44	44	20	24	44	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	45	45	45	....	45	18	27	45	....	...	...	...	..	..	.....	.....
....	...	40	40	40	40	40	40	40	....	40	24	16	40	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	42	42	42	....	42	....	....	42	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	45	45	45	....	45	....	....	45	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	47	.....	.....	....	47	....	....	47	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	36	.....	.....	....	48	....	....	48	....	...	...	...	..	..	.....	.....
...	...	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	....	48	....	...	...	...	..	..	.....	.....
....	...	54	54	54	54	.....	.....	.....	....	54	....	....	54	....	...	...	...	..	..	.....	.....
125	...	589	589	589	589	380	297	297	125	589	100	110	589	....	...	...	...	..	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver—*Continued.*			$										
Mount Pleasant, 1st D.	G. E. McKee, B.A.	Academic	3,360	186½	37	19	18	35.52	....	....	....	....	....
" 2nd "	Mrs. J. Templer	1st Class	2,280	186½	44	28	16	34.90	....	....	....	....	....
" 3rd "	M. Timberlake	Academic	1,320	186½	51	24	27	44.22	....	....	....	....	....
" 4th "	Miss E. M. Pearson	2nd Class	1,680	186½	48	23	25	37.71	....	....	....	....	30
" 5th "	Miss M. E. Maxwell	1st "	1,680	186½	45	20	25	40.04	....	....	....	....	45
" 6th "	Miss E. L. Joudrey	1st "	1,200	186½	55	24	31	39.07	....	....	....	....	55
" 7th "	Miss F. G. Bettes	2nd "	1,100	186½	43	22	21	37.83	....	....	....	....	43
" 8th "	Mrs. E. C. Leith	Academic	1,680	186½	46	21	25	39.98	....	....	....	46	....
" 9th "	Miss G. J. Moore	2nd Class	1,440	186½	39	21	18	36.56	....	....	....	39	....
" 10th "	Miss C. Graham	2nd "	1,100	186½	50	25	25	41.14	....	....	....	50	....
" 11th "	Miss V. A. McCartney	2nd "	1,380	186½	39	19	20	36.35	....	13	26	....	....
" 12th "	Miss M. E. Milley	1st "	1,260	186½	39	19	20	34.78	....	39	....	....	....
" 13th "	Miss S. I. Cowan	2nd "	1,680	186½	43	19	24	35.95	43	....	....	....	....
" 14th "	Miss E. R. Aitchison	Temporary	1,680	187½	46	23	23	34.73	46	....	....	....	....
" 15th "	Miss M. Bower	2nd Class	1,500	187	41	22	19	32.98	41	....	....	....	....
" 16th "	Miss H. Bowdre	Academic	1,200	186	41	20	21	33.48	41	....	....	....	....
" 17th "	Miss C. A. MacKenzie	1st Class	1,440	186½	18	11	7	12.59	....	....	....	4	10
" 18th "	Miss K. L. Chappell	2nd "	1,200	95	39	22	17	31.11	....	....	39	..	....
" 19th "	Miss M. P. Fallows	2nd "	1,500	95	43	16	27	38.65	....	....	....	....	43
					807	398	409	.....	171	52	65	139	226
Macdonald, 1st Div.	E. A. Hemsworth	1st "	3,120	185½	37	12	25	32.96	....	....	....	....	....
" 2nd "	W. H. Brown	2nd "	1,800	185½	45	23	22	41.00	....	....	....	....	....
" 3rd "	Miss M. Macpherson	2nd "	1,440	185½	46	13	33	35.32	....	....	....	....	12
" 4th "	Miss M. C. Harper	2nd "	1,320	185½	50	27	23	39.08	....	....	....	....	50
" 5th "	Miss M. E. Splan	3rd "	1,560	185½	50	19	31	38.46	....	....	....	....	50
" 6th "	Miss E. P. Duthie	2nd "	1,380	185½	42	23	19	37.59	....	....	....	10	32
" 7th "	Miss R. M. Macfarlane	1st "	1,680	185½	45	22	23	39.62	....	....	....	45	....
" 8th "	Miss W. E. Mellish	1st "	1,380	185½	47	31	16	41.57	....	....	18	29	....
" 9th "	Miss G. Brown	1st "	1,620	185½	44	20	24	40.09	....	15	29	....	....
" 10th "	Miss D. J. McCallum	2nd "	1,320	185½	44	26	18	37.34	13	31	....	....	....
" 11th "	Miss L. H. Hood	2nd "	1,320	185½	45	31	14	36.42	45	....	....	....	....
" 12th "	Miss K. C. McLeish	1st "	1,680	185½	44	24	20	36.18	44	....	....	....	....
					539	271	268	.....	102	46	47	84	144
Lord Nelson, 1st Div.	F. A. Jewett, B.A.	Academic	3,360	186½	40	21	19	36.61	....	....	....	....	....
" 2nd "	L. B. Code, B.Sc.	"	2,280	186½	39	16	23	35.19	....	....	....	....	....
" 3rd "	Miss A. J. Cole	1st Class	1,680	186½	43	22	21	38.39	....	....	....	....	....
" 4th "	H. W. Gamey	1st "	1,800	186½	50	19	31	46.68	....	....	....	....	....
" 5th "	Miss R. V. A. Grant	Academic	1,100	186½	38	20	18	37.78	....	....	....	....	....
" 6th "	Miss M. E. Pierce	2nd Class	1,260	186½	48	22	26	41.68	....	....	....	....	48
" 7th "	Miss O. B. Lawrence	1st "	1,100	186½	45	23	22	39.50	....	....	....	....	45
" 8th "	Miss B. M. Kelly	2nd "	1,560	186½	44	25	19	42.79	....	....	....	....	44
" 9th "	Miss M. H. MacKay	2nd "	1,320	186½	52	32	20	46.83	....	....	....	52	....
" 10th "	Miss M. L. Baird	2nd "	1,200	186½	51	28	23	46.99	....	....	....	51	....
" 11th "	Miss E. E. Thompson	2nd "	1,320	186½	45	25	20	39.60	....	....	45	....	....
" 12th "	Miss G. M. Stonhouse	2nd "	1,100	186½	48	20	28	35.15	48	....	....	....	....
" 13th "	Miss E. J. Millar	2nd "	1,200	186½	63	32	31	39.36	33	30	....	....	....
" 14th "	Miss J. T. Creelman	1st "	1,200	186½	46	23	23	38.41	....	25	21	....	....
" 15th "	Miss M. E. Jukes	2nd "	1,680	186½	31	12	19	30.68	14	17	....	....	....
" 16th "	Miss J. A. Harvie	2nd "	1,320	186	40	20	20	36.41	40	....	....	....	....
" 17th "	Miss W. Neate	2nd "	1,100	95	49	21	28	45.06	....	....	....	....	49
					772	381	391	.....	135	72	66	103	186
Florence Nightingale, 1st Div.	O. J. Thomas, B.A.	Academic	3,000	185½	38	19	19	33.39	....	....	....	....	....
" 2nd "	S. D. Meadows, B.A.	"	2,280	185½	36	18	18	32.61	....	....	....	....	....
" 3rd "	Miss E. M. McManus	2nd Class	1,200	185½	44	22	22	36.06	....	....	....	....	....
" 4th "	Miss G. A. Taylor	Academic	1,680	185½	42	19	23	37.91	....	....	....	....	....
" 5th "	Miss V. E. Morris, B.A.	"	1,100	185½	53	29	24	42.74	....	....	....	....	15
" 6th "	Miss E. L. Roberts	1st Class	1,620	185½	51	22	29	43.37	....	....	....	....	51
" 7th "	Miss F. J. Close	1st "	1,680	185½	50	23	27	40.51	....	....	....	....	50
" 8th "	Miss L. L. Close	1st "	1,680	185½	49	27	22	41.79	....	....	....	....	49
" 9th "	Miss M. H. Fallows	Academic	1,260	185½	51	22	29	44.14	..	....	....	1	50
" 10th "	Miss E. M. Lawrence	2nd Class	1,620	185½	38	22	16	37.67	....	37	....	1	....
" 11th "	Miss A. E. McCallum	2nd "	1,680	185½	50	21	29	40.81	....	....	....	50	....
" 12th "	Miss S. E. McKay	2nd "	1,260	185	47	23	24	42.83	....	1	....	46	....
" 13th "	Miss E. M. Taylor, M.A.	Academic	1,320	185½	40	14	26	38.32	....	1	26	13	....
" 14th "	Miss B. M. Carruthers	"	1,320	185½	45	25	20	37.25	2	43	....	....	....
" 15th "	Miss S. Hewton	2nd Class	1,680	185½	42	21	21	29.51	28	14	....	....	....
" 16th "	Miss S. McAlpine	2nd "	1,680	185½	39	24	15	30 69	39	....	....	....	....
" 17th "	Miss V. C. Walsh, B.A.	Academic	1,100	95	35	22	13	31.26	....	....	35	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition, to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			
																					$ cts.	$ cts.
37	...	37	37	37	37	37	37	37	37	37	19	18	37	....	...	...	...	..	..		.....	.....
44	...	44	44	44	44	44	44	44	44	44	28	16	44	....	...	...	...	..	..		.....	.....
51	...	51	51	51	51	51	51	51	51	51	24	27	51	....	...	...	...	..	..		.....	.....
18	...	48	48	48	48	48	48	48	18	48	23	25	48	....	...	...	...	..	..		.....	.....
....	...	45	45	45	45	45	45	....	....	45	20	25	45	....	...	...	...	..	..		.....	.....
....	...	55	55	55	55	55	55	55	....	55	....	...	55	....	...	...	...	..	..		.....	.....
....	...	43	43	43	43	43	43	....	....	43	....	....	43	....	...	...	...	..	..		.....	.....
....	...	46	46	46	46	46	.....	.....	....	46	....	....	46	....	...	...	...	..	..		.....	.....
....	...	39	39	39	39	39	.....	.....	....	39	....	....	39	....	...	...	...	..	..		.....	.....
....	...	50	50	50	50	50	.....	.....	....	50	....	....	50	....	...	...	...	..	..		.....	.....
....	...	39	39	39	39	....	.....	.....	....	39	....	....	39	....	...	...	...	..	..		.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	...	...	...	..	..		.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	...	...	...	..	..		.....	.....
....	...	46	46	46	46	.....	.....	.....	...	46	....	....	46	....	...	...	...	..	..		.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	....	...	...	...	..	..		.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	....	...	...	...	..	..		.....	.....
4	...	18	18	18	18	18	14	14	4	18	11	7	18	....	...	...	...	..	..		.....	.....
...	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	...	...	...	..	..		.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	....	43	....	...	...	...	..	..		.....	.....
154	...	807	807	807	807	619	380	380	154	807	125	118	807	....	...	...	...	..	..		.....	.....
37	...	37	37	37	37	37	37	37	37	37	12	25	37	....	...	...	...	..	..		.....	.....
45	...	45	45	45	45	45	45	45	45	45	23	22	45	....	...	...	...	..	..		.....	.....
34	...	46	46	46	46	46	46	46	34	46	....	....	46	....	...	...	...	..	..		.....	.....
....	...	50	50	50	50	50	50	50	....	50	27	23	50	....	...	...	...	..	..		.....	.....
...	...	50	50	50	50	50	50	50	....	50	....	....	50	....	...	...	...	..	..		.....	.....
....	...	42	42	42	42	42	32	32	....	42	....	....	42	....	...	...	...	..	..		.....	.....
....	...	45	45	45	45	45	.....	.....	....	45	....	....	45	....	...	...	...	..	..		.....	.....
....	...	47	47	47	47	29	.....	.....	....	47	...	....	47	....	...	...	...	..	..		.....	.....
....	...	44	44	44	44	...	.....	.....	....	44	....	....	44	....	...	...	...	..	..		.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	...	...	...	..	..		.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	...	..	..		.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	...	...	...	..	..		.....	.....
116	...	539	539	539	539	344	260	260	116	539	62	70	539	....	...	...	...	..	..		.....	.....
40	...	40	40	40	40	40	40	40	40	40	21	19	40	....	...	...	...	..	..		.....	.....
39	...	39	39	39	39	39	39	39	39	39	16	23	39	....	...	...	...	..	..		.....	.....
43	...	43	43	43	43	43	43	43	43	43	22	21	43	....	...	...	...	..	..		.....	.....
50	...	50	50	50	50	50	50	50	50	50	19	31	50	....	...	...	...	..	..		.....	.....
38	...	38	38	38	38	38	38	38	38	38	20	18	38	....	...	...	...	..	..		.....	.....
....	...	48	48	48	48	48	48	48	....	48	22	26	48	....	...	...	...	..	..		.....	.....
....	...	45	45	45	45	45	45	45	...	45	17	12	45	....	...	...	...	..	..		.....	.....
....	...	44	44	44	44	44	44	44	...	44	....	...	44	....	...	...	...	..	..		.....	.....
....	...	52	52	52	52	52	.....	.....	....	52	....	....	52	....	...	...	...	..	..		.....	.....
....	...	51	51	51	51	51	.....	.....	....	51	....	....	51	....	...	...	...	..	..		.....	.....
....	...	45	45	45	45	...	.....	.....	....	45	....	....	45	....	...	...	...	..	..		.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	....	48	....	...	...	...	..	..		.....	.....
....	...	63	63	63	63	.....	.....	.....	....	63	....	....	63	....	...	...	...	..	..		.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	...	...	...	..	..		.....	.....
....	...	31	31	31	31	...	.....	.....	....	31	....	...	31	....	...	...	...	..	..		.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	40	....	...	...	...	..	..		.....	.....
....	...	49	49	49	49	49	49	49	....	49	....	....	49	....	...	...	...	..	..		.....	.....
210	...	772	772	772	772	499	396	396	210	772	137	150	772	....	...	...	...	..	..		.....	.....
38	...	38	38	38	38	38	38	38	38	38	19	19	38	....	...	...	...	..	..		.....	.....
36	...	36	36	36	36	36	36	36	36	36	18	18	36	....	...	...	...	..	..		.....	.....
44	...	44	44	44	44	44	44	44	44	44	22	22	44	....	...	...	...	..	..		.....	.....
42	...	42	42	42	42	42	42	42	42	42	19	23	42	....	...	...	...	..	..		.....	.....
38	...	53	53	53	53	53	53	53	38	53	29	24	53	....	...	...	...	..	..		.....	.....
...	...	51	51	51	51	51	51	51	....	51	22	29	51	....	...	...	...	..	..		.....	.....
...	...	50	50	50	50	50	50	50	....	50	...	....	50	....	...	...	...	..	..		.....	.....
....	...	49	49	49	49	49	49	49	....	49	27	22	49	....	...	...	...	..	..		.....	.....
....	...	51	51	51	51	51	50	50	....	51	....	....	51	....	...	...	...	..	..		.....	.....
....	...	38	38	38	38	1	.....	.....	....	38	...	...	38	....	...	...	...	..	..		.....	.....
....	...	50	50	50	50	50	.....	.....	....	50	....	....	50	....	...	...	...	..	..		.....	.....
....	...	47	47	47	47	46	.....	.....	....	47	....	....	47	....	...	...	...	..	..		.....	.....
....	...	40	40	40	40	13	.....	.....	....	40	....	....	40	....	...	...	...	..	..		.....	.....
. ...	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	...	...	...	..	..		.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	...	...	...	..	..		.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	...	....	39	....	...	...	...	..	..		.....	.....
....	...	35	35	35	35	.....	.....	.....	....	35	...	....	35	....	...	...	...	..	..		.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver—*Continued.*													
Florence Nightingale,			$										
18th Div.	Miss E. Gibbs	3rd Class	1,440	181½	17	12	5	12.60	....	....	....	....	17
" 19th "	Miss A. Guest	3rd "	1,260	181½	16	14	2	11.64	7	4	1	4	....
					783	399	384	.....	76	100	62	115	232
Cecil Rhodes, 1st Div.	C. R. Evans	1st "	3,510	186½	38	20	18	35.74	....	....	....	....	....
" 2nd "	G. Bruce	1st "	2,380	186½	35	22	13	30.87	....	....	....	....	....
" 3rd "	Miss E. D. Perkins, B.A.	Academic	1,780	186½	42	21	21	38.61	....	....	....	....	....
" 4th "	Miss C. Buchanan	"	1,600	186½	48	26	22	41.29	....	....	....	....	48
" 5th "	Miss E. Faunt	1st Class	1,720	186½	47	25	22	39.73	....	....	....	....	47
" 6th "	Miss A. M. Sinclair, M.A.	Academic	1,680	186½	46	23	23	40.26	....	....	....	....	46
" 7th "	Miss J. H. Sutherland	2nd Class	1,100	186½	48	22	26	39.32	....	....	....	48	....
" 8th "	Miss M. Cattell	2nd "	1,780	186½	41	18	23	36.64	....	....	41	....	....
" 9th "	Miss E. B. Murphy	1st "	1,620	186½	44	25	19	38.41	25	19	....	....	....
" 10th "	Miss M. G. McKay..[B.A.	2nd "	1,780	186½	45	21	24	37.85	45	....	....	....	....
" 11th "	Miss M. M. B. Cameron,	Academic	1,140	95	38	11	27	35.48	....	....	....	19	19
					472	234	238	.....	70	19	41	67	160
Lord Roberts, Principal	A. Rines	1st Class	3,360	....	....	....	....	....	....	....	....	..	....
" 1st Div.	R. P. Steeves	1st "	2,280	186½	41	17	24	37.27	....	....	....	....	....
" 2nd "	Miss H. McNeely	Academic	1,680	186½	35	19	16	30.11	....	....	....	....	....
" 3rd "	A. J. Dove, B.A	"	1,800	186½	31	22	9	28.14	....	....	....	....	....
" 4th "	Miss E. Evans	1st Class	1,680	186½	44	23	21	40.09	....	....	....	....	....
" 5th "	Miss E. F. Crake	2nd "	1,560	186½	45	24	21	38.81	....	....	....	....	....
" 6th "	Miss M. A. O'Neil	1st "	1,260	186½	45	27	18	40.80	....	....	....	....	....
" 7th "	Miss E. J. Laird	1st "	1,680	186½	40	20	20	35.05	....	....	....	....	40
" 8th "	Miss K. A. Dyke	2nd "	1,680	186½	31	16	15	30.42	....	....	....	....	31
" 9th "	Miss I. I. Haviland	3rd "	1,380	186½	35	18	17	28.52	....	....	....	....	35
" 10th "	Miss A. Barker	2nd "	1,100	186½	35	18	17	30.34	....	....	....	....	35
" 11th "	Miss H. N. Honeyman	2nd "	1,200	186½	43	16	27	36.19	....	....	....	....	43
" 12th "	Miss G. F. Jones	1st "	1,620	186½	42	19	23	39.82	....	....	....	....	42
" 13th "	Miss E. E. Gamble	2nd "	1,260	186½	58	32	26	37.97	....	....	....	....	58
" 14th "	Miss W. C. Henderson	2nd "	1,100	186½	44	29	15	37.24	....	....	....	....	44
" 15th "	Miss C. M. Duffus	1st "	1,320	186½	47	30	17	35.85	....	....	....	47	....
" 16th "	Miss E. V. Hawe	2nd "	1,380	186½	39	24	15	35.94	....	....	....	39	....
" 17th "	Miss V. I. Macaulay, B.A.	Academic	1,320	186½	48	19	29	33.67	....	....	....	48	....
" 18th "	Miss D. Bolton	"	1,260	186½	46	23	23	44.11	....	....	46	....	....
" 19th "	Miss E. W. Litch	2nd Class	1,200	186½	44	24	20	32.30	....	5	39	....	....
" 20th "	Miss E. L. Stephens	1st "	1,680	186½	47	31	16	37.41	....	47	....	....	....
" 21st "	Miss I. S. Christie	2nd "	1,320	186½	47	29	18	32.54	47	....	....	....	....
" 22nd "	Miss L. M. Ross	1st "	1,680	186½	44	24	20	32.95	19	25	....	....	....
" 23rd "	Miss F. B. Chapin, B.A.	Academic	1,380	186½	46	24	22	36.19	46	....	....	....	....
" 24th "	Miss L. M. Thompson	1st Class	1,560	186½	44	25	19	38.00	44	....	....	....	....
					1021	553	468	....	156	77	85	134	328
Laura Secord, 1st Div.	Wm. Ramage, B.A.	Academic	3,000	186½	30	16	14	28.59	....	....	....	....	....
" 2nd "	Miss M. L. Johnston	2nd Class	1,800	186½	41	16	25	36.51	....	....	....	....	....
" 3rd "	Miss L. F. Davidson	1st "	1,920	186½	49	28	21	38.64	....	....	....	....	29
" 4th "	Miss J. B. Simpson	2nd "	1,320	186½	49	24	25	38.01	....	....	....	....	49
" 5th "	Miss V. M. Domoney	2nd "	1,320	186½	40	22	20	39.88	....	....	....	....	40
" 6th "	Mrs. S. Bermingham, B.A.	Academic	1,620	186½	41	29	12	38.47	....	....	....	41	....
" 7th "	Miss H. M. Taylor	2nd Class	1,100	186½	42	22	20	36.63	....	....	42	....	....
" 8th "	Miss I. L. Bennett	2nd "	1,260	186½	36	19	17	35.10	....	36	....	....	....
" 9th "	Miss E. Roy	2nd "	1,380	186½	48	28	20	39.12	31	17	....	....	....
" 10th "	Miss M. McKinnon	2nd "	1,680	186½	36	20	16	35.93	36	....	....	....	....
" 11th "	Miss E. M. Barnard	2nd "	1,440	186½	16	10	6	12.14	....	....	1	7	5
" 12th "	Miss M. E. Story	1st "	1,620	186½	16	6	10	12.65	1	1	1	10	3
" 13th "	Miss L. I. A. Inkman	2nd "	1,100	95	42	24	18	38.17	....	....	10	32	....
					486	262	224	....	68	54	54	90	126
Seymour, 1st Division.	R. S. Sherman	1st "	3,360	186½	39	17	22	33.52	....	....	....	....	....
" 2nd "	E. W. Reid, B.A.	Academic	2,280	186½	48	29	19	35.67	....	....	....	....	....
" 3rd "	Miss J. E. Williamson	2nd Class	1,560	186½	48	24	24	41.42	....	....	....	....	....
" 4th "	Miss H. L. MacDonald	1st "	1,680	186½	42	16	26	37.98	....	....	....	....	42
" 5th "	Miss H. E. Boldrick	1st "	1,140	186½	36	21	15	35.51	....	....	....	....	36
" 6th "	Miss J. McWilliams	2nd "	1,260	186½	46	20	26	38.08	....	....	....	....	46
" 7th "	Miss M. A. Dorman	2nd "	1,380	186½	43	20	23	38.83	....	....	....	....	43
" 8th "	Miss E. J. Rollston	Academic	1,140	186½	44	19	25	41.11	....	....	....	....	44
" 9th "	Miss E. C. McDonald	2nd Class	1,680	186½	41	18	23	36.34	....	....	....	41	....
" 10th "	Miss V. Grantham	2nd "	1,140	186½	51	31	20	45.22	....	....	....	....	51

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			
																					$ cts.	$ cts.
....	...	17	17	17	17	17	17	17	....	17	12	5	17	....	....	....	....	..	..		.....	.....
....	...	16	16	16	16	4	....	.....	....	16	14	2	16	....	....	....	....	..	..		.....	.....
198	...	783	783	783	783	545	430	430	198	783	182	164	783	....	....	....	....	..	..		.....	.....
38	...	38	38	38	38	38	38	38	38	38	20	18	38	....	....	....	....	..	..		.....	.....
35	...	35	35	35	35	35	35	35	35	35	22	13	35	....	....	....	....	..	..		.....	.....
42	...	42	42	42	42	42	42	42	42	42	21	21	42	....	....	....	....	..	..		.....	.....
....	...	48	48	48	48	48	48	48	....	48	26	22	48	....	....	....	....	..	..		.....	.....
....	...	47	47	47	47	47	47	47	....	47	25	22	47	....	....	....	....	..	..		.....	.....
....	...	46	46	46	46	46	46	46	....	46	...	....	46	....	....	....	....	..	..		.....	.....
....	...	48	48	48	48	48	.....	.....	....	48	....	....	48	....	....	....	....	..	..		.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	...	....	41	....	....	....	....	..	..		.....	.....
....	...	44	44	44	44	...	.....	.....	....	44	....	....	44	....	....	....	....	..	..		.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	....	....	....	..	..		.....	.....
....	...	38	38	38	38	38	19	19.	....	38	...	....	38	....	....	....	....	..	..		.....	.....
115	...	472	472	472	472	342	275	275	115	472	114	96	472	....	....	....	....	..	..		.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		.....	.....
41	...	41	41	41	41	41	41	41	41	41	17	24	41	....	....	....	....	..	..		.....	.....
35	...	35	35	35	35	35	35	35	35	35	19	16	35	....	....	....	....	..	..		.....	.....
31	...	31	31	31	31	31	31	31	31	31	22	9	31	..	....	....	....	..	..		.....	.....
44	...	44	44	44	44	44	44	44	44	44	23	21	44	....	....	....	....	..	..		.....	.....
45	...	45	45	45	45	45	45	45	45	45	24	21	45	....	....	....	....	..	..		.....	.....
45	...	45	45	45	45	45	45	45	45	45	27	18	45	....	....	....	....	..	..		.....	.....
....	...	40	40	40	40	40	40	40	....	40	20	20	40	....	....	....	....	..	..		.....	.....
...	...	31	31	31	31	31	31	31	...	31	16	15	31	....	....	....	....	..	..		.....	.....
...	...	35	35	35	35	35	35	35	....	35	18	17	35	....	....	....	....	..	..		.....	.....
....	...	35	35	35	35	35	35	35	....	35	18	17	35	....	....	....	....	..	..		.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	....	43	....	....	....	....	..	..		.....	.....
....	...	42	42	42	42	42	42	42	....	42	....	....	42	....	....	....	....	..	..		.....	.....
....	...	58	58	58	58	58	58	58	....	58	....	....	58	....	....	....	....	..	..		.....	.....
....	...	44	44	44	44	44	44	44	....	44	....	....	44	....	....	....	....	..	..		.....	.....
....	...	47	47	47	47	47	.....	.....	....	47	....	....	47	....	....	....	....	..	..		.....	.....
....	...	39	39	39	39	39	.....	.....	....	39	...	....	39	....	....	....	....	..	..		.....	.....
..	..	48	48	48	48	48	.....	.....	....	48	....	....	48	....	....	....	....	..	..		.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	....	....	....	..	..		.....	.....
....	...	44	44	44	44	.....	.....	.....	..	44	....	....	44	....	....	....	....	..	..		.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	...	....	47	....	....	....	....	..	..		.....	.....
...	...	47	47	47	47	.....	.....	.....	...	47	...	...	47	....	....	....	....	..	..		.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	....	....	....	..	..		.....	.....
...	...	46	46	46	46	.....	.....	.....	...	46	...	....	46	....	....	....	....	..	..		.....	.....
....	...	44	44	44	44	.....	.....	.....	...	44	...	...	44	....	....	....	....	..	..		.....	.....
241	...	1021	1021	1021	1021	703	569	569	241	1021	204	178	1021	....	....	....	....	..	..		.....	.....
30	..	30	30	30	30	30	30	30	30	30	16	14	30	....	....	....	....	..	..		.....	.....
41	...	41	41	41	41	41	41	41	41	41	16	25	41	....	....	....	....	..	..		.....	.....
20	...	49	49	49	49	49	49	49	20	49	28	21	49	..	....	....	....	..	..		.....	.....
....	...	49	49	49	49	49	49	49	....	49	24	25	49	....	....	....	....	..	..		.....	.....
....	..	40	40	40	40	40	40	40	...	40	...	....	40	....	....	....	....	..	..		.....	.....
....	...	41	41	41	41	41	.....	.....	....	41	....	...	41	....	....	....	....	..	..		.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	...	....	42	....	....	....	....	..	..		.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	....	....	36	....	....	....	....	..	..		.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	....	48	....	....	....	....	..	..		.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	...	....	36	....	....	....	....	..	..		.....	.....
3	...	16	16	16	16	15	8	8	3	16	10	6	16	....	....	....	....	..	..		.....	.....
....	...	16	16	16	16	13	3	3	....	16	6	10	16	....	....	....	....	..	..		.....	.....
....	...	42	42	42	42	32	.....	.....	.....	42	..	....	42	....	....	....	....	..	..		.....	.....
94	...	486	486	486	486	310	220	220	94	486	100	101	486	....	....	....	....	..	..		.....	.....
39	...	39	39	39	39	39	39	39	39	39	17	22	39	....	....	....	....	..	..		.....	.....
48	...	48	48	48	48	48	48	48	48	48	29	19	48	....	....	....	....	..	..		.....	.....
48	...	48	48	48	48	48	48	48	48	48	24	24	48	....	....	....	....	..	..		.....	.....
....	...	42	42	42	42	42	42	42	....	42	16	26	42	....	....	....	....	..	..		.....	.....
....	...	36	36	36	36	36	36	36	....	36	21	15	36	....	....	....	....	..	..		.....	.....
....	..	46	46	46	46	46	46	46	....	46	....	....	46	....	....	....	....	..	..		.....	.....
....	...	43	43	43	43	43	43	43	..	43	....	....	43	....	....	....	....	..	..		.....	.....
....	...	44	44	44	44	44	44	44	....	44	....	....	44	....	....	....	....	..	..		.....	.....
....	...	41	41	41	41	41	.....	.....	...	41	....	....	41	....	....	....	....	..	..		.....	.....
....	...	51	51	51	51	51	51	51	...	51	....	....	51	....	....	....	....	..	..		.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver—*Continued.*			$										
Seymour, 11th Division.	Miss L. M. Hudson	2nd Class	1,100	186½	48	32	16	40.82	....	....	....	48	....
" 12th "	Miss M. L. Astle	2nd "	1,680	186½	43	20	23	42.53	....	....	43	....	....
" 13th "	Miss M. C. Anderson	2nd "	1,100	186½	47	27	20	39.76	....	17	30	....	....
" 14th "	Miss M. E. Pyke	2nd "	1,140	186½	48	26	22	38.16	....	48	....	....	....
" 15th "	Miss M. E. Salter	2nd "	1,680	186½	50	20	30	37.67	50	....	....	....	....
" 16th "	Miss M. Elliott	2nd "	1,680	186½	49	26	23	38.02	49	....	....	....	...
" 17th "	Mrs. A. G. Shine	2nd "	1,680	186½	46	26	20	34.69	46	....	....	....	....
" 18th "	Miss C. E. Munro	1st "	1,260	186½	45	24	21	34.90	45	....	....	....	....
" 19th "	Miss I. J. Herd	2nd "	1,260	186½	18	10	8	10.39	3	....	2	8	5
" 20th "	A. M. Shore	2nd "	1,140	95	48	29	19	42.42	....	....	..	48	....
					880	455	425	.....	193	65	75	145	267
Strathcona, 1st Div.	J. E. Brown, B.A.	Academic	3,000	91½	16	7	9	15.30	....	....	....	....	....
" 2nd "	Miss B. Johnston	1st Class	2,280	186½	34	12	22	30.90	....	....	....	....	....
" 3rd "	Miss M. C. Johnston	2nd "	1,620	186½	35	19	16	34.46	....	....	....	....	....
" 4th "	Miss M. W. Mitchell.	2nd "	1,800	186½	38	20	18	31.43	....	....	....	....	....
" 5th "	J. L. Bennett	1st "	1,260	186½	40	22	18	36.81	....	....	....	....	....
" 6th "	Miss K. Cairns	2nd "	1,680	186½	45	23	22	43.47	....	....	....	....	45
" 7th "	Miss A. M. Townsend	2nd "	1,320	186½	43	27	16	40.86	....	....	....	....	43
" 8th "	Miss M. Cairns	2nd "	1,560	186½	29	21	8	21.47	....	....	....	....	29
" 9th "	Miss A. M. Reid	2nd "	1,320	186½	48	24	24	43.09	....	....	....	....	48
" 10th "	Miss M. C. Noble	2nd "	1,320	186½	49	30	19	43.60	....	....	....	....	49
" 11th "	Miss F. E. Williams	2nd "	1,100	186½	49	30	19	42.36	..	....	....	49	....
" 12th "	Miss G. Bolton, B.A.	Academic	1,560	186½	41	18	23	37.58	....	....	....	41	....
" 13th "	Miss B. Sanders	2nd Class	1,380	186½	38	25	13	37.14	....	....	....	38	....
" 14th "	Miss E. L. Berry	2nd "	1,320	186½	49	26	23	42.93	....	49	....	....	....
" 15th "	Miss M. Dorer	2nd "	1,140	186½	42	22	20	41.33	....	....	42	....	....
" 16th "	Miss H. M. McArthur	2nd "	1,200	186½	46	34	12	42.10	....	46	....	....	....
" 17th "	Miss L. A. Ross	2nd "	1,680	186½	44	22	22	38.94	44	....	....	....	....
" 18th "	Miss M. Iniswell	1st "	1,680	186½	45	21	24	36.71	45	....	....	....	....
" 19th "	Miss M. Capon	1st "	1,260	186½	54	25	29	43.58	54	....	....	....	....
" 20th "	Miss M. F. Johnston	2nd "	1,440	186½	42	23	19	41.94	42	....	....	....	....
" 21st "	Miss J. Roy	Academic	1,260	186½	49	26	23	44.48	49	....	....	....	....
" 22nd "	Miss E. K. Quigley	2nd Class	1,320	186½	16	11	5	13.43	....	....	2	9	5
" 23rd "	Miss R. R. Graham	2nd "	1,320	186	12	6	6	10.61	3	....	5	4	....
" 24th "	Miss H. E. Draper, B.A.	Academic	1,100	95	36	21	15	33.74	...	..	...	36	....
" 25th "	Miss E. C. Russell	1st Class	1,200	95	47	27	20	42.87	..	....	47	....	....
					987	542	445	.....	237	95	96	177	219
Lord Tennyson, 1st Div.	Robt. Straight	1st "	3,360	186½	32	15	17	30.04	....	....	....	....	....
" 2nd "	W. F. Houston	2nd "	2,280	186½	39	23	16	32.02	....	....	....	....	....
" 3rd "	Miss A. J. G. Purdie, B.A.	Academic	1,680	186½	40	23	17	36.35	....	....	....	....	....
" 4th "	Miss L. Brunton	2nd Class	1,680	186½	46	23	23	39.70	....	....	....	....	....
" 5th "	Miss S. Davis	2nd "	1,620	186½	44	20	24	38.13	....	....	....	....	....
" 6th "	Miss E. J. Blair	1st "	1,680	186½	44	24	20	41.91	....	....	....	....	44
" 7th "	Miss C. J. Holden	1st "	1,500	186½	46	17	29	43.31	....	....	....	....	46
" 8th "	Miss H. E. MacLeod	Academic	1,680	186½	52	30	22	44.61	....	....	....	....	52
" 9th "	Miss J. E. Tucker	1st Class	1,680	186½	43	17	26	38.67	....	....	....	43	....
" 10th "	Miss E. Roche	Temporary	1,680	186½	49	30	19	41.50	....	....	....	49	....
" 11th "	Miss W. M. Tucker	2nd Class	1,380	186½	42	23	19	39.60	..	42	....	....	....
" 12th "	Miss A. Houghton	1st "	1,440	186½	38	20	18	35.25	25	13	....	....	....
" 13th "	Miss M. Whitworth	2nd "	1,380	186½	34	19	15	28.78	16	18	...	...	...
" 14th "	Miss M. E. Johnstone	2nd "	1,680	186½	40	19	21	31.50	40	....	....	....	....
" 15th "	Miss D. M. Lord	2nd "	1,260	95	51	26	25	42.84	....	....	51	....	....
					640	329	311	.....	81	73	51	92	142
School for the Blind	Mrs. Thos. Burke	Special	1,250	186½	7	4	3	6.72	....	....	1	3	3
School for the Deaf,													
1st Div.	S. H. Lawrence	"	2,100	188	12	5	7	9.67	....	..	....	....	....
" 2nd "	Miss E. Winchester	"	1,390	188	8	2	6	7.50	....	..	....	....	....
" 3rd "	Miss T. M. Westling	"	1,368	188	7	3	4	6.89	....	....	....	....	....
" 4th "	Mrs. G. C. Lawrence	"	1,200	188	8	4	4	5.51	....	....	....	....	....
" 5th "	Mrs. V. B. Kent	"	1,390	188	9	8	1	6.65	....	....	....	....	....
					44	22	22	.....	....	....	....	....	....
	S. Northrop	Man. Train	2,781	....	....	....	....	.....	...	....	....	....	....
	H. A. Jones	"	2,590	....	....	....	....	.....	....	....	....	....	....
	F. Fairey	"	2,590	....	....	....	....	.....	....	....	....	....	....
	E. W. Parker	"	2,590	....	....	....	....	.....	....	....	....	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		$ cts.	$ cts.
....	....	48	48	48	48	48	.....	.....	....	48	....	....	48	....	.....	....	....	..	..		.....	.....
....	....	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	.....	....	....	..	..		.....	.....
....	....	47	47	47	47	.....	.....	.....	....	47	....	....	47	....	.....	....	....	..	..		.....	.....
....	....	48	48	48	48	.....	.....	.....	....	48	....	....	48	....	.....	....	....	..	..		.....	.....
....	....	50	50	50	50	.....	.....	.....	....	50	....	....	50	....	.....	....	....	..	..		.....	.....
....	....	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	.....	....	....	..	..		.....	.....
....	....	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	.....	....	....	..	..		.....	.....
....	....	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	.....	....	....	..	..		.....	.....
....	....	18	18	18	18	13	5	5	....	18	10	8	18	....	.....	....	....	..	..		.....	.....
....	....	48	48	48	48	48	.....	.....	....	48	....	....	48	....	.....	....	....	..	..		.....	.....
135	...	880	880	880	880	547	402	402	135	880	117	114	880	....	.....	....	....	..	..		.....	.....
16	...	16	16	16	16	16	16	16	16	16	7	9	16	....	.....	....	....	..	..		.....	.....
34	...	34	34	34	34	34	34	34	34	34	12	22	34	....	.....	....	....	..	..		.....	.....
35	...	35	35	35	35	35	35	35	35	35	19	16	35	....	.....	....	....	..	..		.....	.....
38	...	38	38	38	38	38	38	38	38	38	20	18	38	....	.....	....	....	..	..		.....	.....
40	...	40	40	40	40	40	40	40	40	40	22	18	40	....	.....	....	....	..	..		.....	.....
....	...	45	45	45	45	45	45	45	...	45	23	22	45	....	.....	....	....	..	..		.....	.....
....	...	43	43	43	43	43	43	43	....	43	27	16	43	....	.....	....	....	..	..		.....	.....
....	...	29	29	29	29	29	29	29	....	29	....	....	29	....	.....	....	....	..	..		.....	.....
...	...	48	48	48	48	48	48	48	....	48	....	....	48	....	.....	....	....	..	..		.....	.....
....	...	49	49	49	49	49	49	49	....	49	....	....	49	....	.....	....	....	..	..		.....	.....
....	...	49	49	49	49	49	.....	.....	...	49	....	....	49	....	.....	....	....	..	..		.....	.....
....	...	41	41	41	41	41	.....	.....	...	41	....	....	41	....	.....	....	....	..	..		.....	.....
....	...	38	38	38	38	38	.....	.....	....	38	....	...	38	....	.....	....	....	..	..		.....	.....
....	...	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	.....	....	....	..	..		.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	.....	....	....	..	..		.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	...	46	....	.....	....	....	..	..		.....	.....
...	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	.....	....	....	..	..		.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	.....	....	....	..	..		.....	.....
....	...	54	54	54	54	.....	.....	.....	....	54	....	....	54	....	.....	....	....	..	..		.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	.....	....	....	..	..		.....	.....
....	...	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	.....	....	....	..	..		.....	.....
....	...	16	16	16	16	14	5	5	....	16	11	5	16	....	.....	....	....	..	..		.....	.....
....	...	12	12	12	12	4	.....	.....	....	12	6	6	12	....	.....	....	....	..	..		.....	.....
....	...	36	36	36	36	36	.....	.....	....	36	....	....	36	....	.....	....	....	..	..		.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	....	....	47	....	.....	....	....	..	..		.....	.....
163	...	987	987	987	987	559	382	382	163	987	147	132	987	....	.....	....	....	..	..		.....	.....
32	...	32	32	32	32	32	32	32	32	32	15	17	32	....	.....	....	....	..	..		.....	.....
39	...	39	39	39	39	39	39	39	39	39	23	16	39	....	.....	....	....	..	..		.....	.....
40	...	40	40	40	40	40	40	40	40	40	23	17	40	....	.....	....	....	..	..		.....	.....
46	...	46	46	46	46	46	46	46	46	46	23	23	46	....	.....	....	....	..	..		.....	.....
44	...	44	44	44	44	44	44	44	44	44	20	24	44	....	.....	....	....	..	..		.....	.....
....	...	44	44	44	44	44	44	44	....	44	24	20	44	....	.....	....	....	..	..		.....	.....
....	...	46	46	46	46	46	46	46	....	46	....	....	46	....	.....	....	....	..	..		.....	.....
....	...	52	52	52	52	52	52	52	....	52	....	....	52	....	.....	....	....	..	..		.....	.....
....	...	43	43	43	43	43	.....	.....	....	43	....	....	43	....	.....	....	....	..	..		.....	.....
....	...	49	49	49	49	49	.....	.....	....	49	....	....	49	....	.....	....	....	..	..		.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	.....	....	....	..	..		.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	.....	....	....	..	..		.....	.....
....	...	34	34	34	34	.....	.....	.....	....	34	....	....	34	....	.....	....	....	..	..		.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	40	....	.....	....	....	..	..		.....	.....
....	...	51	51	51	51	.....	.....	.....	....	51	....	....	51	....	.....	....	....	..	..		.....	.....
201	...	640	640	640	640	435	343	343	201	640	128	117	640	....	.....	....	....	..	..		.....	.....
....	...	7	7	7	.....	6	3	3	....	7	4	3	5	....	.....	....	....	..	..		.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Vancouver—*Continued.*	Thos. Chippendale	Man. Train	2,590										
	F. W. Templer	"	2,320										
	W. Wilson	"	1,900										
	N. H. Gardner	"	2,320										
	A. J. Micklemore	"	2,320										
	J. W. McAdam	"	2,320										
	D. P. McCallum	"	2,320										
Manual Training Instructors.	A. Williams	"	2,320										
	W. A. McKeown	"	2,320										
	N. Y. Cross	"	2,180										
	A. Campbell	"	2,040										
	A. Cantell	"	2,480										
	C. Crabb	"	1,760										
	A. W. Jones	"	1,760										
	W. W. Hill	"	2,590										
	F. J. Harris	"	2,040										
	A. P. Tingley	"	2,460										
	C. A. Cameron	"	1,900										
	Miss E. Berry	Dom. Science	2,400										
	Mrs. I. Abel	Special	1,800										
	Miss M. D. Allen	Dom. Science	1,300										
	Miss E. B. Rhoads	"	1,900										
	Miss L. E. Underhill	"	1,140										
	Miss A. M. Bell	"	1,680										
Domestic Science Instructors.	Miss B. S. Dickinson	"	1,140										
	Miss E. F. Simpson	"	1,140										
	Miss E. Steven	"	1,320										
	Miss D. Murray	"	1,140										
	Miss F. Oliver	"	1,500										
	Miss S. J. Mutch	"	1,560										
	Miss E. M. Parker	"	1,260										
Supervisor of Drawing	C. H. Scott	Art	2,870										
Supervisor of Music	F. W. Dyke	Music	2,400										
" "	Miss C. Chadwick	"	1,680										
Supervisor of Physical Drill	A. C. Bundy	Special	2,462										
Supervisor of Primary Classes	Miss E. J. Trembath	1st Class	2,166										
	Miss A. J. Dauphinee	Special	1,800										
" "	Miss R. A. Kerr	"	1,800										
" "	Miss J. M. Cantelon	"	1,740										
" "	Miss L. Cotsworth	"	1,680										
Dental	Dr. R. L. Pallen	"	2,000										
	Dr. F. J. Bezeau	"	1,500										
	Dr. H. N. Scott	"	1,500										
	Dr. W. A. Loveridge	"	1,500										
	Dr. W. K. Sproule	"	1,500										
Nurses	Miss E. Breeze	"	1,740										
	Miss I. M. Ewart	"	1,680										
	Miss W. B. Stevens	"	1,380										
	Miss M. K. Cruikshank	"	1,440										
	Miss M. P. Campbell	"	1,320										
	Miss A. McLellan	"	1,680										
	Miss I. Smith	"	1,200										
	Miss H. Dukes	"	1,140										
Municipal Inspector of Schools	J. S. Gordon	Academic	4,800										
Assistant Municipal Inspector of Schools	T. A. Brough	"	3,600										
Vancouver, North:													
Londsdale, 1st Division	D. P. Clark	1st Class	2,640	184	31	16	15	25.79					
" 2nd "	Miss H. Rae	1st "	1,350	189	33	17	16	27.82					
" 3rd "	Miss E. J. McCullough	1st "	1,560	189	42	16	26	34.55					42
" 4th "	Miss O. E. Burgess	3rd "	1 560	189	47	25	22	40.94					47
" 5th "	Miss W. M. S. Lloyd	2nd "	1,185	189	51	23	28	40.68				30	21
" 6th "	Miss D. B. Young	2nd "	1,185	189	36	14	22	34.56				36	
" 7th "	Miss G. E. Hart	1st "	1,500	189	52	28	24	42.63	25	27			
" 8th "	Miss R. R. Miller	2nd "	1,140	189	36	18	18	35.53	36				
" 9th "	Miss V. McKenzie	2nd "	1,080	96	27	13	14	25.50			27		
					355	170	185		61	27	27	66	110

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

Number of Pupils in each Reader and in each Subject of Study.																						Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			$ cts.	$ ct

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver, North—*Continued.*			$										
Queen Mary, 1st Div.	J. M. Ewing	1st Class	2,700	184	39	18	21	38.01	....	....	....	....	....
" 2nd "	T. E. Levy	3rd "	1,720	184	40	25	15	34.07	....	....	....	....	....
" 3rd "	Miss G. E. A. Nutt	2nd "	1,560	184	37	14	23	30.22	....	....	....	....	....
" 4th "	Miss C. J. Stevenson	3rd "	1,350	189	43	17	26	37.26	....	....	....	....	43
" 5th "	Miss M. Bastin, B.A.	Academic	1,245	189	45	21	24	38.09	....	....	....	....	45
" 6th "	Miss G. C. McRae	2nd Class	1,455	189	36	14	22	29.60	....	....	....	....	36
" 7th "	Miss E. C. Macpherson	1st "	1,080	189	44	22	22	34.71	....	....	....	1	43
" 8th "	Miss D. S. Drescher	2nd "	1,395	189	38	18	20	34.08	....	....	....	38	....
" 9th "	Miss H. D. DeCew	2nd "	1,080	189	38	23	15	35.17	....	....	....	38	....
" 10th "	Mrs. E. M. Goodyear	3rd "	1,080	189	44	18	26	36.42	....	....	44	....	....
" 11th "	Miss C. M. Thornton	2nd "	1,185	189	30	15	15	29.42	....	30	....	....	....
" 12th "	Miss R. Greenway	3rd "	1,350	189	37	19	18	27.47	29	8	....	....	....
" 13th "	Miss M. E. Walsh	3rd "	1,290	189	37	23	14	26.92	27	....	....	10	....
" 14th "	Miss E. M. MacAdam	3rd "	1,560	96	41	23	18	31.31	41	....	....	....	....
					549	270	279	.....	97	38	44	87	167
Ridgeway, 1st Division.	J. B. Bennet	1st "	2,880	184	38	23	15	34.19	....	....	....	....	....
" 2nd "	Miss C. Black	2nd "	1,560	189	44	21	23	35.74	....	....	....	....	....
" 3rd "	Miss L. Bull	2nd "	1,560	189	37	22	15	31.02	....	....	....	....	...
" 4th "	Miss M. E. Edwards	1st "	1,350	189	49	25	24	38.58	....	....	....	....	49
" 5th "	Miss V. S. Fraser	3rd "	1,560	189	45	22	23	36.81	....	....	....	....	45
" 6th "	Miss M. Hutchison	2nd "	1,350	189	14	11	3	13.98	2	2	....	....	10
" 7th "	Miss H. S. McColl	2nd "	1,290	189	28	13	15	27.96	....	....	....	28	....
" 8th "	Miss G. Cunliffe	1st "	1,290	189	29	17	12	28.32	....	....	....	29	....
" 9th "	Miss M. C. Fraser	2nd "	1,185	189	36	18	18	34.80	....	36	....	....	....
" 10th "	Miss M. A. Gaunt	3rd "	1,290	189	39	24	15	35.72	39	....	....	....	....
" 11th "	Miss G. H. Patrick	2nd "	1,560	189	41	17	24	36.28	41	....	....	....	....
" 12th "	Miss A. C. Frost	Temporary	1,080	96	39	19	20	37.03	....	....	39	....	....
Manual Training Inst.	A. Wooldridge	Man. Train.	2,280	....	....	....	....	.....	....	....	....	....	....
" "	H. Vinall	" "	1,920	....	....	....	....	.....	....	....	....	....	....
Domestic Science Inst.	Mrs. A. Ward	Special	900	....	....	....	....	.....	....	....	....	....	....
					439	232	207	.....	82	38	39	57	104
Vernon, 1st Division	C. Fulton, B.A.	Academic	2,100	188	43	22	21	35.03	....	....	....	....	...
" 2nd "	Miss E. DeBou	2nd Class	1,500	188	35	15	20	29.91	....	....	....	....	....
" 3rd "	Miss B. Seaton	2nd "	1,440	188	45	22	23	38.41	....	....	....	....	....
" 4th "	Miss J. C. Bell	2nd "	1,440	188	43	20	23	37.40	....	....	....	....	....
" 5th "	W. L. Seaton	3rd "	1,380	188	43	23	20	37.77	....	....	....	....	43
" 6th "	Miss A. F. Wilbers	2nd "	1,380	188	43	17	26	34.62	....	....	....	....	43
" 7th "	Miss R. P. McCaul	2nd "	1,440	188	43	19	24	35.54	....	....	....	....	43
" 8th "	T. E. Jessett	3rd "	1,080	188	37	22	15	36.19	....	....	....	....	37
" 9th "	Miss A. S. Cavers	1st "	1,800	188	44	22	22	40.36	....	....	....	44	....
" 10th "	Miss A. J. Perry	2nd "	1,320	188	43	17	26	36.78	....	....	....	43	....
" 11th "	Miss A. E. Foy	2nd "	1,260	188	45	20	25	38.43	....	....	45	....	....
" 12th "	Miss E. A. Edmonds	3rd "	1,260	188	43	25	18	35.36	....	14	29	....	....
" 13th "	Miss L. B. Hodgins	2nd "	1,260	188	51	25	26	42.79	....	3	48	....	....
" 14th "	Miss M. S. Ayers	1st "	1,440	188	50	29	21	40.43	50	....	....	....	....
" 15th "	Miss J. C. Jardine	2nd "	1,440	188	48	18	30	40.72	48	....	....	....	....
" 16th "	Miss E. M. Marshall	2nd "	1,440	188	39	22	17	38.71	39	....	....	....	....
" 17th "	Miss A. I. Warner	2nd "	1,260	151	39	22	17	34.13	....	....	....	2	37
Manual Training Inst.	C. White	Man. Train	2,120	....	....	....	....	.....	....	....	....	....	....
Domestic Science Inst.	Miss G. E. Dutcher	Dom. Science	1,560	....	....	....	....	.....	....	....	....	....	....
					734	360	374	.....	137	17	122	89	203
Victoria:													
Bank Street, 1st Div.	Miss A. M. Paterson	2nd Class	1,820	187½	37	19	18	30.34	....	....	....	37	....
" 2nd "	Miss I. M. Richards	3rd "	1,025	187½	34	21	13	30.75	....	....	8	26	....
" 3rd "	Miss M. Greig	2nd "	1,350	187½	36	20	16	30.86	....	....	26	10	....
" 4th "	Miss E. W. McMurray	1st "	1,450	187½	48	23	25	37.83	48	....	....	....	....
					155	83	72	.....	48	....	34	73	....
Beacon Hill, 1st Div.	Miss R. M. Nachtrieb	1st "	975	187½	33	17	16	28.21	....	....	....	33	....
" 2nd "	Mrs. K. E. Ford	2nd "	1,250	187½	39	16	23	32.82	....	....	39	....	....
" 3rd "	Miss K. MacKay	1st "	1,200	187½	37	21	16	30.76	....	37	....	....	....
" 4th "	Miss A. Russell	1st "	1,695	187½	34	17	17	25.04	25	9	....	....	....
					143	71	72	.....	25	46	39	33	....
Boys' Central, 1st Div.	J. A. Cunningham	1st "	2,575	187½	31	31	.....	27.98	....	....	....	....	....
" 2nd "	W. J. Wilby	2nd "	2,075	187½	33	33	.....	30.44	....	....	....	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																							
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
39	...	39	39	39	39	39	39	39	39	39	18	21	.....	.....	...	...	...	...	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	25	15	.....	.....	...	...	...	...	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	14	23	.....	.....	...	...	...	...	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	17	26	43	.....	...	...	...	...	..	.....	.....
....	...	45	45	45	45	45	45	45	....	45	21	24	45	.....	...	...	...	...	..	.....	.....
....	...	36	36	36	36	36	36	36	....	36	14	22	.....	.....	...	...	...	...	..	.....	.....
....	...	44	44	44	44	44	43	43	...	44	....	22	44	.....	...	...	...	...	..	.....	.....
....	...	38	38	38	38	38	....	.....	....	38	18	20	.....	.....	...	...	...	...	..	.....	.....
....	...	38	38	38	38	38	.....	.....	....	38	..	....	.....	.....	...	...	...	...	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	.....	.....	...	...	...	...	..	.....	.....
...	...	30	30	30	30	.....	.....	.....	....	30	...	....	.....	.....	...	...	...	...	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	..	....	.....	.....	...	...	...	...	..	.....	.....
...	...	37	37	37	37	10	.....	.....	....	37	...	....	.....	.....	...	...	...	...	..	.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	.....	.....	...	...	...	...	..	.....	.....
116	...	549	549	549	549	370	283	283	116	549	127	173	132	....	...	...	...	...	..	.....	.....
38	...	38	38	38	38	38	38	38	38	38	23	15	.....	.....	...	...	...	...	..	.....	.....
44	...	44	44	44	44	44	44	44	44	44	21	23	....	.....	...	...	...	...	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	22	15	.....	.....	...	...	...	...	..	.....	.....
....	...	49	49	49	49	49	49	49	....	49	25	24	.....	.....	...	...	...	...	..	.....	.....
....	...	45	45	45	45	45	45	45	....	45	....	....	.....	.....	...	...	...	...	..	.....	.....
....	...	14	14	14	14	10	10	10	....	14	....	....	.....	.....	...	...	...	...	..	.....	.....
....	...	28	28	28	28	28	.....	.....	....	28	13	15	.....	.....	...	...	...	...	..	.....	.....
....	...	29	29	29	29	29	.....	.....	....	29	....	....	.....	.....	...	...	...	...	..	.....	.....
..	...	36	36	36	36	.....	.....	.....	....	36	....	....	36	.....	...	...	...	...	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	.....	...	...	...	...	..	.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	.....	...	...	...	...	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	.....	...	...	...	...	..	.....	.....
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....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	...	...	...	...	..	.....	.....
119	...	439	439	439	439	280	223	223	119	439	104	92	155	....	...	...	...	...	..	.....	.....
43	...	43	43	43	43	43	43	43	43	43	22	21	.....	.....	...	...	...	...	..	11,743 35	38,550 00
35	...	35	35	35	35	35	35	35	35	35	15	20	.....	.....	...	...	...	...	..	.....	.....
45	...	45	45	45	45	45	45	45	45	45	22	23	.....	.....	...	...	...	...	..	.....	.....
43	...	43	43	43	43	43	43	43	43	43	20	23	.....	.....	...	...	...	...	..	.....	.....
....	..	43	43	43	43	43	43	43	43	43	....	....	.....	.....	...	...	...	...	..	.....	.....
....	...	43	43	43	43	43	43	43	...	43	....	....	.....	.....	...	...	...	...	..	.....	.....
....	...	43	43	43	43	43	43	43	...	43	19	24	.....	.....	...	...	...	...	..	.....	.....
....	...	37	37	37	37	37	37	37	...	37	22	15	.....	.....	...	...	...	...	..	.....	.....
....	...	44	44	44	44	44	.....	.....	..	44	....	....	.....	.....	...	...	...	...	..	.....	.....
....	...	43	43	43	43	43	.....	.....	....	43	....	....	.....	.....	...	...	...	...	..	.....	.....
....	...	45	45	45	45	..	.....	.....	....	45	....	....	.....	.....	...	...	...	...	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	.....	...	...	...	...	..	.....	.....
....	...	51	51	51	51	..	.....	.....	....	51	....	....	.....	.....	...	...	...	...	..	.....	.....
....	...	50	50	50	50	.....	.....	.....	....	50	....	....	50	.....	...	...	...	...	..	.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	....	48	.....	...	...	...	...	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	.....	...	...	...	...	..	.....	.....
....	...	39	39	39	39	39	37	37	....	39	....	....	.....	.....	...	...	...	...	..	.....	.....
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....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	...	...	...	...	..	.....	.....
166	...	734	734	734	734	458	369	369	166	734	143	146	180	....	...	...	...	...	..	.....	.....
...	..	37	37	37	37	37	.....	.....	....	37	....	18	37	.....	...	...	...	...	..	90,236 65	385,165 24
....	...	34	34	34	34	26	.....	.....	....	34	....	13	34	.....	...	...	...	...	..	.....	.....
....	...	36	36	36	36	10	.....	.....	....	36	...	12	36	.....	...	...	...	...	..	.....	.....
...	...	48	48	48	48	.....	.....	.....	....	48	.....	....	48	.....	...	...	...	...	..	.....	.....
....	...	155	155	155	155	73	.....	.....	....	155	....	43	155	.....	...	...	...	...	..	.....	.....
....	...	33	33	33	33	33	.....	.....	....	33	17	16	33	.....	...	...	...	...	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	16	23	39	.....	...	...	...	...	..	.....	.....
...	...	37	37	37	37	.....	.....	.....	....	37	...	....	.....	.....	...	...	...	...	..	.....	.....
....	...	34	34	34	34	.....	.....	.....	....	34	..	....	34	.....	...	...	...	...	..	.....	.....
...	...	143	143	143	143	33	.	.....	...	143	33	39	106	....	...	...	...	...	..	.....	.....
31	...	31	31	31	31	31	31	31	31	31	31	....	31	....	...	...	...	...	..	.....	.....
33	...	33	33	33	33	33	33	33	33	33	33	....	33	....	...	...	...	...	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Victoria.—*Continued.*			$										
Boys' Central, 3rd Div.	Miss N. M. McKillican...	Academic....	1,600	187½	39	39	.....	32.66	....	....	....	....	....
" 4th "	V. A. Jones	2nd Class ...	1,250	187½	36	36	.....	30.27	....	....	....	....	36
" 5th "	Thos. R. Wheadon.....	1st "	1,275	187½	35	35	....	34.10	...	....	....	....	35
" 6th "	Mrs. L. B. Mackenzie ...	3rd "	1,375	187½	38	38	.....	33.25	....	....	....	22	16
" 7th "	Miss D. E. Durick	2nd "	1,100	187½	42	42	.....	34.80	....	....	....	42	....
" 8th "	Miss B. J. Hinds.....	1st "	1,425	187½	37	37	....	30.18	....	....	....	37	...
" 9th "	Miss L. M. Sylvester	2nd "	1,250	187½	36	36	.....	33 23	....	....	25	11	....
" 10th "	Miss L. Johnson	2nd "	1,250	187½	31	31	.....	27.63	14	17	....	....	....
" 11th "	Miss M. Gibson	3rd " ...	1,375	187½	39	39	....	32.06	39	....	....	....	....
" 12th "	Miss E. F. Tervo	1st "	900	117	31	31	.....	27.79	....	13	18	....	....
					428	428	.....	....	53	30	43	112	87
Burnside, 1st Division.	Wm. H. Wilson.....	1st "	2,125	187½	32	12	20	26.91	....	....	....	....	....
" 2nd "	Miss J. Polson	1st "	1,500	187½	26	13	13	25.05	....	....	....	....	26
" 3rd "	Miss M. F. Stewart	1st "	1,125	187½	46	22	24	36.19	....	....	....	24	22
" 4th "	Miss I. E. McDonald	2nd "	1,025	187½	45	22	23	41.44	....	....	23	22	....
" 5th "	Miss M. E. Middleton ...	3rd "	1,175	187½	33	20	13	32.70	12	21	...	....	....
" 6th "	Miss L. O. Townsend ..	2nd "	1,100	187½	43	27	16	32.63	43	....	....	....	....
					225	116	109	.....	55	21	23	46	48
Cook Street.....	Miss I. H. McIntosh.....	3rd "	1,150	187½	25	17	8	23.46	5	5	5	10	....
Sir Jas. Douglas, 1st D.	E. Campbell.....	2nd "	2,550	187½	41	16	25	36.86	....	....	....	....	....
" 2nd "	H. W. Creelman	3rd "	1,675	187½	42	27	15	35.89	....	....	....	....	....
" 3rd "	Miss V. Watson.....	1st "	1,275	187½	40	21	19	36.77	....	....	....	....	....
" 4th "	Miss B. T. Ramsay.....	2nd "	1,400	187½	45	24	21	35.07	....	....	....	....	....
" 5th "	Miss D. J. Hay.....	1st "	1,050	187½	41	16	25	36.34	....	....	....	....	41
" 6th "	Miss S. F. Hiscocks	2nd "	1,400	187½	43	21	22	33.52	..	....	....	....	43
" 7th "	Miss A. E. Andrews.....	2nd "	1,250	187½	43	18	25	38.01	....	....	....	....	43
" 8th "	H. C. Gilliland.....	2nd "	1,175	187½	44	26	18	36.43	....	....	....	1	43
" 9th "	Miss M. H. Sanson	2nd "	1,025	187½	44	23	21	41.08	....	....	....	44	....
" 10th "	Miss E. K. Smith.....	2nd "	900	187½	42	19	23	37.69	..	....	17	25	....
" 11th "	Miss Mary Bell.....	2nd "	950	187½	37	19	18	34.41	....	....	37	...	....
" 12th "	Miss W. Greig.....	2nd "	1,250	187½	33	17	16	31.98	....	33	....	....	...
" 13th "	Miss R. George	2nd "	1,325	187	46	16	30	36.97	46	...	....	....	....
" 14th "	Miss D. M. James.....	2nd "	950	117	33	17	16	29.86	....	....	....	33	....
					574	280	294	.....	46	33	54	103	170
Fernwood, 1st Division.	Miss L. M. Stiff	1st "	1,350	187½	30	11	19	28.81	....	....	18	12	....
" 2nd "	Miss C. German.....	2nd "	1,400	187½	32	18	14	31.65	16	16	....	....	....
					62	29	33	.....	16	16	18	12	...
Girls' Central, 1st Div.	Miss M. Williams.....	1st "	2,375	187½	29	.....	29	24.31	....	....	....	....	....
" 2nd "	Miss E. F. Barron.	1st "	1,725	187½	27	.....	27	25.89	...	..	....	....	....
" 3rd "	Miss S. A. Robinson.....	1st "	1,575	187½	36	.....	36	28.41	....	....	....	....	....
" 4th "	Miss A. Keast.....	1st "	1,575	187½	31	.....	31	29.33	....	....	....	....	....
" 5th "	Miss W. M. Fox.....	1st "	1,425	187½	38	.....	38	30.40	....	....	....	....	38
" 6th "	Miss E. MacNaughton...	3rd "	1,400	187½	39	.....	39	31.24	....	....	....	....	39
" 7th "	Miss M. I. Gladstone.....	2nd "	1,400	187½	42	.....	42	33.02	....	..	....	....	42
" 8th "	Miss M. S. Croft	2nd "	1,400	187½	39	.....	39	33.55	....	....	....	....	39
" 9th "	Miss E. M. Mason	1st "	1,275	187½	36	.....	36	30.28	....	....	....	11	25
" 10th "	Miss D. W. Sherwood....	3rd "	1,075	187½	37	.....	37	30.53	....	....	....	37	....
" 11th "	Miss E. L. Harris.....	1st "	1,125	187½	37	.....	37	32.59	....	...	28	9	....
" 12th "	Miss O. M. Aird.....	2nd "	1,025	187½	43	.....	43	34.10	13	30	...	....	...
" 13th "	Miss A. L. Johnstone....	2nd "	1,400	187½	45	.....	45	37.11	45	....	....	....	....
					479	.....	479	.....	58	30	28	57	183
George Jay, 1st Div.	T. W. Hall.....	1st "	2,575	187½	31	8	23	27.06	....	..	....	....	....
" 2nd "	E. Butterworth.....	1st "	2,025	187½	34	18	16	31.01	....	....	....	....	....
" 3rd "	Mrs. E. E. Menkus.....	1st "	1,650	187½	28	13	15	27.86	....	....	....	....	....
" 4th "	Miss G. M. Havercroft...	2nd "	1,175	70½	.....	.....	.....	30.39	(clo	sed)	....	...	....
" 5th "	Miss C. L. Harris.....	2nd "	1,475	187½	45	22	23	36.12	....	....	....	....	....
" 6th "	Miss A. F. Gardiner.....	1st "	1,575	187½	46	28	18	35.68	....	....	....	....	....
" 7th "	Miss E. M. Dalby..	2nd "	1,400	187½	41	24	17	36.51	....	....	....	....	41
" 8th "	Miss S. N. King.	2nd "	1,100	187½	47	22	25	40.65	....	....	....	....	47
" 9th "	Miss G. M. Havercroft...	2nd "	1,175	187½	48	27	21	36.71	....	....	....	....	48
" 10th "	Miss L. S. Christie	2nd "	1,025	187½	42	25	17	35.57	....	....	....	....	42
" 11th "	Miss M. I. Craig.....	2nd "	950	187½	40	16	24	30.59	....	....	....	....	40
" 12th "	Miss W. J. Ross	2nd "	1,025	187½	38	18	20	30.50	....	....	....	....	38

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

| NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY. | | |

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Victoria.—*Continued.*			$										
George Jay, 13th Div.	Miss H. A. Bradshaw....	2nd Class....	1,025	187½	40	22	18	39.75	....	....	....	40	....
" 14th "	Miss D. B. Graves.	1st "	900	117	44	19	25	39.69	....	....	....	44	....
					524	262	262	.....	....	....	....	84	256
Margt. Jenkins, 1st D.	W. H. Gee	1st "	2,475	187½	33	16	17	29.32	....	....	....	....	....
" 2nd "	W. Brown.....	1st "	1,950	187½	40	20	20	36.26	....	....	....	....	....
" 3rd "	Miss E. V. Cass	2nd "	1,100	187½	39	23	16	31.32	....	..	....	....	39
" 4th "	Miss B. O'Keiffe	1st "	1,425	187½	38	17	21	30.59	....	..	....	....	38
" 5th "	Miss M. B. Hastie.....	2nd "	1,100	187½	45	26	19	34.03	....	....	....	33	12
" 6th "	Miss J. I. McIntyre	2nd "	1,025	187½	44	26	18	35.55	....	....	29	15	....
" 7th "	Miss E. V. Edwards.....	2nd "	1,100	187½	35	17	18	32.47	20	15	....	....	....
" 8th "	Miss G. Field	1st "	1,350	187½	37	14	23	32.20	37	....	....	....	....
					311	159	152	.....	57	15	29	48	89
Kingston St., 1st Div..	Miss K. M. Sehl.....	2nd " ...	1,100	187½	46	19	27	37.66	....	....	....	46	....
" 2nd " ..	Miss O G. Cameron.....	2nd "	1,250	187½	42	23	19	36.75	....	....	16	26	....
" 3rd " ..	Miss F. M. McNeill.....	2nd "	1,100	187½	39	23	16	32.24	....	23	16	....	....
" 4th " ..	Miss B. McKinnon	2nd "	1,250	187½	42	23	19	36.65	10	32	....	....	....
" 5th " ..	Miss E. G. Lawson.....	1st "	1,785	187½	48	26	22	35.01	48	....	....	....	....
					217	114	103	.....	58	55	32	72	....
North Ward, 1st Div..	J. M. Campbell.....	2nd "	2,700	187½	44	18	26	31.96	...	....	....	...	....
" 2nd " ..	Miss C. A. Dowler	1st " ...	1,825	187½	30	13	17	28.44	....	....	....	....	....
" 3rd " ..	H. Cross	2nd "	1,350	187½	31	20	11	29.39	....	....	....	....	....
" 4th " ..	Miss S. J. Murton	1st "	1,675	187½	37	22	15	29.54	....	....	....	....	....
" 5th " ..	Miss B. B. Douglas.....	1st "	1,525	187½	39	22	17	35.63	....	....	....	....	39
" 6th " ..	Miss M. M. Miller.	2nd "	1,200	187½	40	25	15	36.87	....	....	....	...	40
" 7th " ..	Miss E. C. Cessford	3rd "	1,250	187½	37	24	13	33.51	....	....	....	....	37
" 8th " ..	Miss K. F. Ede	3rd "	1,175	187½	45	23	22	35.44	....	....	....	45	....
" 9th " ..	Miss J. Freeman.....	3rd "	1,325	187½	42	20	22	36.26	....	....	....	42	....
" 10th " ..	Miss W. R. Bell.....	3rd "	1,100	187½	35	23	12	34.31	..	....	35	....	....
					380	210	170	.....	...	...	35	87	116
Oaklands, 1st Division	R. H. McInnes	1st "	2,375	187½	36	15	21	31.26	...	....	....	...	....
" 2nd "	D. J. Thomas.....	2nd "	2,000	187½	25	13	12	21.10	...	....	....	....	....
" 3rd "	Mrs. G. L. Dixon	2nd "	1,400	187½	31	18	13	27.08	...	....	....	....	....
" 4th "	Miss A. E. Hendry	2nd "	1,400	187½	33	16	17	31.02	....	....	....	....	33
" 5th "	Miss H. M. Wheeler.....	3rd "	1,075	187½	34	13	21	32.18	...	....	....	....	34
" 6th "	Miss N. K. Edwards	2nd "	1,025	187½	36	21	15	33.54	....	....	....	....	36
" 7th "	Miss A. L. Hunt	1st "	975	187½	35	15	20	31.95	....	....	....	...	35
" 8th "	Miss E. Corrance	2nd "	900	187½	35	17	18	33.47	....	....	....	35	....
" 9th "	Miss A. G. L. Bowron...	3rd "	925	187½	35	20	15	34.05	....	....	....	35	....
" 10th "	Miss L. B. Smethurst....	2nd "	950	187½	32	19	13	29.85	....	....	...	32	....
" 11th "	Miss J. K. Smith.....	2nd "	950	187½	35	17	18	33.23	...	1	34	....	....
" 12th "	Miss L. A. Eastman.....	2nd "	950	187½	48	27	21	35.70	....	48	....	....	....
" 13th "	Miss E L. Vantreight...	2nd "	1,325	187½	38	21	17	32.95	38	....	....	....	....
" 14th "	Miss M. Chrow	2nd "	900	117	35	17	18	30.76	35	....	....	....	....
					488	249	239	....	73	49	34	102	138
Quadra Street, 1st Div.	J. F Sallaway.....	1st "	2,575	187½	26	7	19	23.12	....	....	....	....	....
" 2nd "	W. H. Muncy.....	1st "	1,875	187½	33	16	17	27.61	...	....	....	....	....
" 3rd "	Miss O. G. Lister	Academic....	1,225	187½	41	14	27	36.43	....	....	....	....	41
" 4th "	Miss J. M. Duncan	2nd Class....	1,400	187½	34	12	22	29.57	....	....	....	....	34
" 5th "	Miss E. A. Stewart	1st "	975	187½	38	17	21	30.89	..	....	....	38	....
" 6th "	Miss E. M. Leigh	2nd "	950	187½	34	21	13	30.52	....	....	....	34	....
" 7th "	Miss A. M. Winkel	2nd "	1,025	187½	39	23	16	32.20	....	18	21	....	....
" 8th "	Miss M. C. Frank	2nd "	1,325	187½	38	21	17	30.52	38	....	....	....	....
					283	131	152	.....	38	18	21	72	75
Quadra Primary, 1st D.	Mrs. A. C. Thain	2nd "	1,250	187½	43	20	23	34.92	....	....	43	....	....
" 2nd "	Miss G. Adams	3rd "	925	187½	37	21	16	32.12	....	37	....	....	....
" 3rd "	Miss A. Stewart	2nd "	1,025	187½	39	14	25	30.82	....	39	....	....	....
" 4th "	Miss M. Lucas	2nd "	1,670	187½	49	27	22	31.48	27	22	....	....	....
					168	82	86	....	27	98	43	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	$ cts.	$ cts.
....	...	40	40	40	40	40	.....	.....	....	40	....	40	40	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	44	.....	.....	....	44	....	24	44	....	...	...	...	..	..	.....	.....
184	...	524	524	524	524	524	440	440	184	524	220	283	524	....	...	...	...	..	..	.....	.....
33	...	33	33	33	33	33	33	33	33	33	16	17	33	....	...	...	...	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	20	20	40	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	23	16	39	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	38	38	38	....	38	....	21	38	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	45	12	12	....	45	....	25	45	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	15	.....	.....	....	44	....	44	44	....	...	...	...	..	..	.....	.....
....	...	35	35	35	35	.....	.....	.....	....	35	....	....	35	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	...	...	...	..	..	.....	.....
73	...	311	311	311	311	210	162	162	73	311	59	143	311	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	46	.....	.....	....	46	....	27	46	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	26	.....	.....	....	42	..	....	42	....	...	...	...	..	..	.....	.....
...	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	...	...	...	..	..	.....	.....
..	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	...	...	...	..	..	.....	.....
...	...	48	48	48	48	.....	.....	.....	....	48	....	...	48	....	...	...	...	..	..	.....	.....
....	...	217	217	217	217	72	.....	.....	....	217	....	27	217	..	...	...	...	..	..	.....	.....
44	...	44	44	44	44	44	44	44	44	44	18	26	44	...	...	...	...	..	..	.....	.....
30	...	30	30	30	30	30	30	30	30	30	13	17	30	....	...	...	...	..	..	.....	.....
31	..	31	31	31	31	31	31	31	31	31	20	11	31	....	...	...	...	..	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	22	15	37	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	22	17	.....	....	...	...	...	..	..	.....	.....
....	...	40	40	40	40	40	40	40	....	40	25	15	40	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	37	37	37	....	37	24	13	37	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	45	.....	.....	....	45	....	22	45	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	42	.....	.....	....	42	....	22	42	....	...	...	...	..	..	.....	.....
....	...	35	35	35	35	.....	.....	.....	....	35	....	....	35	....	...	...	...	..	..	.....	.....
142	...	380	380	380	380	345	258	258	142	380	144	158	341	....	...	...	...	..	..	.....	.....
36	...	36	36	36	36	36	36	36	36	36	15	21	36	....	...	...	...	..	..	.....	.....
25	...	25	25	25	25	25	25	25	25	25	13	12	25	....	...	...	...	..	..	.....	.....
31	...	31	31	31	31	31	31	31	31	31	18	13	31	....	...	...	...	..	..	.....	.....
....	...	33	33	33	33	33	33	33	....	33	16	17	33	....	...	...	...	..	..	.....	.....
....	..	34	34	34	34	34	34	34	....	34	13	21	34	....	...	...	...	..	..	.....	.....
....	...	36	36	36	36	36	36	36	....	36	21	15	36	....	...	...	...	..	..	.....	.....
....	...	35	35	35	35	35	35	35	....	35	15	20	35	....	...	...	...	..	..	.....	.....
...	...	35	35	35	35	35	.....	.....	....	35	....	....	35	....	...	...	...	..	..	.....	.....
....	...	35	35	35	35	35	.....	.....	....	35	....	15	35	....	...	...	...	..	..	.....	.....
....	...	32	32	32	32	32	.....	.....	....	32	....	13	32	....	...	...	...	..	..	.....	.....
....	...	35	35	35	35	.....	.....	.....	....	35	....	....	35	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	...	48	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	...	...	...	..	..	.....	.....
....	...	35	35	35	35	.....	.....	.....	....	35	....	....	35	....	...	...	...	..	..	.....	.....
92	...	488	488	488	488	332	230	230	92	488	111	147	488	....	...	...	...	..	..	.....	.....
26	...	26	26	26	26	26	26	26	26	26	7	19	26	....	...	...	...	..	..	.....	.....
33	...	33	33	33	33	33	33	33	33	33	16	17	33	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	41	41	41	....	41	14	27	41	....	...	...	...	..	..	.....	.....
....	...	34	34	34	34	34	34	34	....	34	12	22	34	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	38	.....	.....	....	38	....	....	38	....	...	...	...	..	..	.....	.....
...	...	34	34	34	34	34	.....	.....	....	34	....	13	34	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	.....	....	...	...	...	..	..	.....	.....
59	...	283	283	283	283	206	134	134	59	283	49	98	245	....	...	...	...	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	...	43	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	...	...	...	..	..	.....	.....
....	...	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	...	...	...	..	..	.....	.....
....	...	168	168	168	168	.....	.....	.....	....	168	....	....	168	....	...	...	...	..	..	.....	.....

CITY SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Victoria—*Continued.*			$										
Rock Bay, 1st Division	Miss H. Harris	2nd Class	900	186	47	47	....	32.82	28	6	13	....	.....
" 2nd "	Miss G. Stubbs	3rd "	1,000	116	60	59	1	28.06	60	....	....	....	.....
					107	106	1	.....	88	6	13	....	.....
South Park, 1st Div.	A. A. Campbell	1st "	2,575	182½	36	18	18	30.76	....	....	....	....	.....
" 2nd "	G. H. Bevan-Pritchard	3rd "	1,850	182½	36	13	23	30.60	....	....	....	....	.....
" 3rd "	Miss C. McL. Long	1st "	1,650	182½	38	16	22	30.88	..	....	....	....	.....
" 4th "	Miss J. C. Roberts	1st "	1,425	182½	34	19	15	32.04	....	..	....	....	.....
" 5th "	Miss C. Stoddart	2nd "	1,475	182½	41	23	18	33.12	....	..	....	....	.....
" 6th "	Miss J. G. Roberts	2nd "	1,475	182½	36	19	17	31.24	....	....	....	....	36
" 7th "	D. A. Fraser	2nd "	1,700	182½	33	19	14	30.69	....	....	....	....	33
" 8th "	Miss I. C. Aird	1st "	1,350	182½	35	21	14	29.92	....	....	....	....	35
" 9th "	Miss J. McQ. Gordon	2nd "	1,100	182½	44	21	23	37.41	....	....	....	....	44
" 10th "	Miss L. M. Archiba	Academic	1,075	182½	37	20	17	33.29	....	....	....	....	37
					370	189	181	.....	....	....	....	....	185
Spring Ridge, 1st Div.	Miss I. Tuck	2nd Class	1,670	187½	41	20	21	39.62	....	....	41	....	.....
" 2nd "	Miss M. O'Rourke	1st "	1,275	187½	40	21	19	37.34	....	....	40	....	.....
" 3rd "	Miss D. Albhouse	3rd "	925	187½	37	20	17	35.41	14	23	....	....	.....
" 4th "	Miss C. M. Martin	2nd "	1,325	187½	38	19	19	32.47	26	12	....	....	.....
" 5th "	Miss B. H. Sargent	1st "	1,125	187½	35	20	15	30.48	35	....	....	....	.....
					191	100	91	.....	75	35	81	....	.....
Victoria, West, 1st Div.	A. T. Hunkin	1st "	2,275	187½	34	10	24	31.30	....	....	....	....	.....
" 2nd "	R. E. Collis	Academic	1,775	187½	37	8	29	33.34	....	....	....	....	.....
" 3rd "	Miss N. M. Rigby	2nd Class	1,100	187½	34	19	15	32.64	....	....	....	....	34
" 4th "	Miss M. Fox	1st "	1,125	187½	39	20	19	36.27	....	....	....	....	39
" 5th "	Miss L. A. Carson	2nd "	1,100	187½	44	15	29	37.33	....	....	....	....	44
" 6th "	Miss V. M. Davies	2nd "	1,100	187½	45	27	18	40.70	....	....	....	28	17
" 7th "	Miss E. G. Smith	2nd "	1,025	187½	39	19	20	36.57	....	....	....	39	.....
" 8th "	Miss D. A. Fox	1st "	1,275	187½	43	26	17	38.29	....	....	17	26	.....
" 9th "	Miss V. M. Walker	2nd "	1,100	187½	42	20	22	36.60	32	10	....	....	.....
" 10th "	Miss A. N. Anderson	2nd "	1,325	187½	34	13	21	33.74	34	....	....	....	.....
" 11th "	Miss M. M. Beattie	2nd "	900	117	32	15	17	31.93	....	....	32	....	.....
					423	192	231	.....	66	10	49	93	134
Child Study Laboratory	Miss B. Wynn	Special	2,345	....	.....	.....	.....	.....	....	....	....	....	.....
	Mrs. L. Griffiths		1,200	189	23	9	14	12.70	....	....	....	....	.....
	Miss M. L. Hobkirk		600	....	.....	.....	.....	.....	....	....	....	....	.....
Manual Training Instructors.	W. H. Binns	Man. Train.	2,775	....	.....	.....	.....	.....	....	....	....	....	.....
	F. W. Ball	"	1,800	....	.....	.....	.....	.....	....	....	....	....	.....
	G. Anstey	"	2,175	....	.....	.....	.....	.....	....	....	....	....	.....
	G. M. Breadner	"	2,250	....	.....	.....	.....	.....	....	....	....	....	.....
	W. A. Plenderleith	"	1,575	....	.....	.....	.....	.....	....	....	....	....	.....
	D. S. Cameron	"	2,100	....	.....	.....	.....	.....	....	....	....	....	.....
	A. H. Marrion	"	1,875	....	.....	.....	.....	.....	....	....	....	....	.....
	L. A. Campbell	"	1,875	....	.....	.....	.....	.....	....	....	....	....	.....
	R. F. Goldfinch	"	1,875	....	.....	.....	.....	.....	....	....	....	....	.....
Domestic Science Instructors.	Miss M. E. Blankenbach	Dom. Science	1,425	....	.....	.....	.....	.....	....	....	....	....	.....
	Miss I. Davidson	"	1,425	....	.....	.....	.....	.....	....	....	....	....	.....
	Miss M. Wright	"	1,425	....	.....	.....	.....	.....	....	....	....	....	.....
	Miss M. M. Brown	"	1,425	....	.....	.....	.....	.....	....	....	....	....	.....
	Miss K. Cockburn	"	1,200	....	.....	.....	.....	.....	....	....	....	....	.....
	Miss A. M. Sherrin	"	1,375	....	.....	.....	.....	.....	....	....	....	....	.....
Sup. of Physical Training	I. St. Clair	Special	1,950	....	.....	.....	.....	.....	....	....	....	....	.....
	B. Harney	"	1,635	....	.....	.....	.....	.....	....	....	....	....	.....
	Miss S. G. Huntley	"	1,425	....	.....	.....	.....	.....	....	....	....	....	.....
Supervisor of Drawing	Miss L. M. Mills	Art	1,950	....	.....	.....	.....	.....	....	....	....	....	.....
Supervisor of Music	H. J. Pollard	Music	2,100	....	.....	.....	.....	.....	....	....	....	....	.....
Mun. Inspector of Schools	Col. W. N. Winsby	1st Class	3,250	....	.....	.....	.....	.....	....	....	....	....	.....
Grand total	City Schools, 1920-21		.....	....	39650	20223	19427	....	6798	3229	3562	6320	10990
"	" 1919-20		.....	....	37416	18961	18455	.. ..	6894	2990	3268	5711	10633

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			
																					$ cts.	$ cts.
....	...	47	47	47	47	.....	.....	.....	....	47	....	....	.....	....	...	...	...	..	..		.....	.....
...	...	60	60	60	60	.....	.....	.....	....	60	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	107	107	107	107	.....	.....	.....	....	107	....	....	.....	....	...	...	...	..	..		.....	.....
36	...	36	36	36	36	36	36	36	36	36	18	18	36	....	...	...	...	..	..		.....	.....
36	...	36	36	36	36	36	36	36	36	36	13	23	36	....	...	...	...	..	..		.....	.....
38	...	38	38	38	38	38	38	38	38	38	16	22	38	....	...	...	...	..	..		.....	.....
34	...	34	34	34	34	34	34	34	34	34	19	15	34	....	...	...	...	..	..		.....	.....
41	...	41	41	41	41	41	41	41	41	41	23	18	41	....	...	...	...	..	..		.....	.....
....	...	36	36	36	36	36	36	36	....	36	19	17	36	....	...	...	...	..	..		.....	.....
....	...	33	33	33	33	33	33	33	....	33	19	14	33	....	...	...	...	..	..		.....	.....
....	...	35	35	35	35	35	35	35	....	35	21	14	35	....	...	...	...	..	..		.....	.....
....	...	44	44	44	44	44	44	44	....	44	21	23	44	....	...	...	...	..	..		.....	.....
...	...	37	37	37	37	37	37	37	....	37	20	17	37	....	...	...	...	..	..		.....	.....
185	...	370	370	370	370	370	370	370	185	370	180	181	370	....	...	...	...	..	..		.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	...	21	41	....	...	...	...	..	..		.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	...	19	.....	....	...	...	...	..	..		.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	...	...	...	..	..		.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	...	...	...	..	..		.....	.....
....	...	35	35	35	35	.....	.....	.....	....	35	....	....	35	....	...	...	...	..	..		.....	.....
....	...	191	191	191	191	.....	.....	.....	....	191	...	40	151	...	...	...	...	..	..		.....	.....
34	...	34	34	34	34	34	34	34	34	34	10	24	.....	....	...	...	...	..	..		.....	.....
37	...	37	37	37	37	37	37	37	37	37	8	29	37	....	...	...	...	..	..		.....	.....
....	...	34	34	34	34	34	34	34	....	34	19	15	34	....	...	...	...	..	..		.....	.....
....	...	39	39	39	39	39	39	39	....	39	20	19	.....	....	...	...	...	..	..		.....	.....
....	...	44	44	44	44	44	44	44	....	44	15	29	44	....	...	...	...	..	..		.....	.....
...	...	45	45	45	45	45	17	17	....	45	...	18	45	....	...	...	...	..	..		.....	.....
...	...	39	39	39	39	39	.....	.....	....	39	....	20	39	....	...	...	...	..	..		.....	.....
....	...	43	43	43	43	26	.....	.....	....	43	...	....	43	....	...	...	...	..	..		.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	...	...	...	..	..		.....	.....
....	...	34	34	34	34	.....	.....	.....	....	34	....	....	34	....	...	...	...	..	..		.....	.....
....	...	32	32	32	32	.....	.....	.....	....	32	....	....	.....	....	...	...	...	..	..		.....	.....
71	...	423	423	423	423	298	205	205	71	423	72	154	318	....	...	...	...	..	..		.....	.....
....	....	.....	.....	.....	.....	.....	.....	.....	....	.....	....	...	...	....	...	...	...	..	..		.....	.....
....	....	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	..

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Burnaby:			$										
Armstrong Avenue	Miss G. L. Cale	3rd Class	1,000	186½	31	19	12	22.14	9	4	4	4	8
Barnet	A. J. McKenna, B.A.	Academic	1,400	187	27	16	11	22.78	5	4	6	....	8
Douglas Road, 1st Div.	Miss R. Warburton	2nd Class	1,400	182½	29	13	16	27.42	....	....	....	....	17
" 2nd "	Miss C. J. King	3rd "	1,100	164½	39	18	21	31.66	12	9	4	14	....
Edmonds St., 1st Div.	N. Morrison	2nd "	2,400	186½	41	13	28	36.83	....	....	....	....	....
" 2nd "	W. Blair	2nd "	1,750	186½	46	21	25	37.90	....	....	....	....	....
" 3rd "	Miss D. L. Black	1st "	900	186½	47	19	28	43.60	....	....	....	....	47
" 4th "	Miss L. C. E. Mackenzie	2nd "	1,300	186½	44	25	19	39.05	....	....	....	....	44
" 5th "	Miss A. S. Moodie	1st "	900	186½	50	31	19	40.26	....	....	....	13	37
" 6th "	Miss A. S. Corbett	2nd "	1,300	186½	46	24	22	40.13	....	....	....	46	....
" 7th "	Miss P. E. S. Featherston-haugh	2nd "	1,300	186½	44	22	22	37.65	....	22	22	....	....
" 8th "	Miss E. M. Crake	2nd "	1,300	185½	50	32	18	42.78	50	....	....	....	....
" 9th "	Miss H. H. S. Reid	2nd "	900	186½	39	18	21	31.04	....	....	20	19	....
" 10th "	Miss L. O. James	2nd "	900	186½	46	22	24	35.05	38	8	....	....	....
" 11th "	G. D. MacDonald	Academic	1,100	94	39	18	21	33.33	....	....	....	....	....
Gilmore Ave., 1st Div.	S. J. Griffiths	1st Class	2,450	186½	45	20	25	39.29	....	....	....	....	....
" 2nd "	E. I. Cantell	2nd "	1,750	186½	42	18	24	39.13	....	....	....	....	....
" 3rd "	Miss M. M. Scott	3rd "	1,500	186½	44	21	23	38.97	....	....	....	....	....
" 4th "	J. N. Burnett	3rd "	1,200	186½	52	24	28	38.99	....	....	....	....	26
" 5th "	Miss E. M. Keast	2nd "	1,300	186½	44	24	20	36.13	....	....	....	....	44
" 6th "	Miss M. E. Brundrett	2nd "	1,100	186½	46	26	20	39.43	....	....	....	....	46
" 7th "	Miss E. Wilks	2nd "	1,100	186½	49	26	23	38.54	....	....	....	25	24
" 8th "	Miss E. H. Tough	2nd "	1,100	186½	44	23	21	38.55	....	....	....	44	....
" 9th "	Miss E. F. Heaps	1st "	1,100	186½	48	27	21	39.80	....	....	48	....	....
" 10th "	Miss F. D. Schou	3rd "	900	186½	53	30	23	35.88	....	53	....	....	....
" 11th "	Miss D. H. Horton	2nd "	900	186½	49	33	16	37.06	49	....	....	....	....
" 12th "	Miss M. A. Patterson	2nd "	1,100	95	45	25	20	37.84	....	34	....	11	....
Hamilton Road	J. G. Davy	2nd "	1,000	185½	34	9	25	25.46	5	1	7	7	9
Howard Ave	Mrs. C. Streeter	1st "	1,300	184½	44	27	17	32.18	11	10	10	6	7
Inman Ave., 1st Div.	J. C. Glass	2nd "	1,800	186½	33	13	20	27.75	....	....	....	....	19
" 2nd "	Miss J. E. Gray	2nd "	1,200	186½	33	19	14	29.54	....	11	8	13	1
" 3rd "	Miss N. A. Sutcliffe	3rd "	1,100	186½	40	19	21	29.88	40	....	....	....	....
" 4th "	P. Pullinger	3rd "	1,400	116	46	25	21	35.66	....	....	....	16	30
Kingsway, East, 1st D.	Miss J. M. McKenzie	Academic	1,800	185	36	21	15	32.09	....	....	....	....	13
" 2nd "	D. P. Gray	2nd Class	900	185	34	17	17	31.43	....	....	....	....	34
" 3rd "	Miss G. J. May	3rd "	1,250	185	50	26	24	35.33	41	9	....	....	....
" 4th "	Miss V. V. Dennison	2nd "	1,200	116	44	20	24	35.78	....	....	12	32	....
Kingsway, W., 1st D.	C. G. Brown	Academic	2,300	185	36	18	18	35.25	....	....	....	....	....
" 2nd "	Miss M. A. Gray	2nd Class	1,750	184	40	19	21	34.04	....	....	....	....	....
" 3rd "	R. R. Gordon-Cumming	2nd "	1,000	184	43	26	17	38.37	....	....	....	....	....
" 4th "	Miss M. C. Morrow	2nd "	1,300	185	46	20	26	41.11	....	....	....	....	46
" 5th "	Miss C. W. Simpson	3rd "	1,100	184½	48	24	24	44.31	....	....	....	....	48
" 6th "	Miss F. A. Brice	2nd "	1,300	185	49	18	31	45.08	....	....	....	34	15
" 7th "	Miss M. Simmonds	1st "	1,000	185	50	23	27	41.77	....	2	16	32	....
" 8th "	Miss O. Wells	2nd "	1,300	185	42	22	20	38.61	....	42	....	....	....
" 9th "	Miss A. T. Forrest	2nd "	1,500	180	30	15	15	29.95	30	....	....	....	....
" 10th "	Miss M. E. McKee	2nd "	1,100	94	46	32	14	40.07	....	30	16	....	....
Nelson Ave., 1st Div.	D. H. H. Lowther	1st "	1,900	186½	41	14	27	36.16	....	....	....	....	....
" 2nd "	Mrs. M. Scott	2nd "	1,400	186½	46	29	17	38.43	....	....	....	....	46
" 3rd "	Miss J. Peplow	2nd "	1,300	186½	36	22	14	35.18	....	....	....	17	19
" 4th "	Miss E. E. Price	1st "	900	186½	30	15	15	26.33	....	....	30	....	....
" 5th "	Miss L. I. Leavens	3rd "	1,300	186½	33	21	12	31.23	33	....	....	....	....
" 6th "	Miss E. A. Donley	2nd "	900	168½	38	22	16	33.74	....	38	....	....	....
" 7th "	Miss M. A. Mann	3rd "	1,100	95	37	22	15	32.95	14	....	....	23	....
Riverway, East, 1st D.	Miss H. F. Crake	2nd "	1,600	185	31	11	20	27.67	....	....	....	....	20
" 2nd "	Miss J. R. Shand	2nd "	1,200	185	33	17	16	23.54	16	5	3	9	....
Schou St., 1st Division	G. B. White	Academic	1,500	185½	35	16	19	28.10	....	....	....	....	21
" 2nd "	Miss E. Whitworth	3rd Class	1,200	185	40	14	26	33.40	12	4	9	15	....
Sperling Avenue	Miss M. L. Black	2nd "	1,300	186½	42	27	15	30.18	11	5	....	7	15
Manual Training Inst.	G. W. Sievers	Man. Train.	2,000	....	....	....	....	....	....	....	....	....	....
" "	J. R. MacLean	"	1,600	....	....	....	....	....	....	....	....	....	....
Domestic Science Inst.	Miss F. G. Sainsbury	Dom. Science	1,600	....	....	....	....	....	....	....	....	....	....
					2445	1251	1194		376	291	215	387	643
Chilliwack:													
Atchelitz, 1st Division	T. S. Carmichael	2nd Class	1,290	186½	24	14	10	15.25	....	....	....	....	....
" 2nd "	Miss B. Lehman	Academic	840	186½	29	16	13	23.88	....	....	....	12	17
" 3rd "	Miss C. L. McLeod	3rd Class	880	187½	36	15	21	23.97	13	8	11	4	....
Camp Slough, 1st Div.	R. A. Muir	2nd "	1,000	188	32	15	17	24.93	....	....	....	....	18
" 2nd "	Miss H. Z. Munro	3rd "	840	188	27	17	10	22.11	12	....	3	12	....
Cheam, 1st Division	Miss L. M. Nowlan	Academic	1,100	179	42	18	24	36.85	....	....	....	....	21
" 2nd "	Miss A. H. Taylor	2nd Class	940	179	29	12	17	24.06	11	2	6	10	....
East Chilliwack, 1st D.	Miss L. L. Mitchell	2nd "	1,000	187½	36	18	18	30.26	....	....	....	....	16
" 2nd "	Mrs. F. G. Hanson	3rd "	840	187½	33	19	14	25.88	4	9	5	15	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

Number of Pupils in each Reader and in each Subject of Study.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		
																				$ cts.	$ cts.
2	...	31	31	31	31	14	10	10	2	31	4	....	31	....	....	....	....	..	..	33,872 00	99,709 96
4	...	27	27	27	27	12	12	12	4	27	....	....	.....	....	....	....	....	..	..	.....	.....
12	...	29	29	29	29	29	29	29	12	29	8	7	....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	14	.....	.....	....	39	....	....	39	....	....	....	....	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	13	28	.....	....	....	....	....	..	..	.....	.....
46	...	46	46	46	46	46	46	46	46	46	21	25	.....	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	47	47	47	....	47	19	28	.....	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	25	19	.....	....	....	....	....	..	..	.....	.....
....	...	50	50	50	50	50	37	37	....	50	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	46	.....	.....	....	46	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	....	....	....	..	..	.....	.....
....	...	50	50	50	50	.....	.....	.....	....	50	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	19	.....	.....	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	....	....	....	..	..	.....	.....
39	...	39	39	39	39	39	39	39	39	39	18	21	.....	....	....	....	....	..	..	.....	.....
45	...	45	45	45	45	45	45	45	45	45	20	25	45	....	....	....	....	..	..	.....	.....
42	...	42	42	42	42	42	42	42	42	42	18	24	42	....	....	....	....	..	..	.....	.....
44	...	44	44	44	44	44	44	44	44	44	21	23	44	....	....	....	....	..	..	.....	.....
27	...	52	52	52	52	52	52	52	27	52	24	28	52	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	24	20	44	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	46	46	46	....	46	26	20	46	....	....	....	....	..	..	.....	.....
....	...	49	49	49	49	49	24	24	...	49	....	....	49	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	44	.....	.....	....	44	....	....	44	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	....	48	....	....	....	....	..	..	.....	.....
....	...	53	53	53	53	.....	.....	.....	....	53	....	....	53	....	....	....	....	..	..	.....	.....
....	...	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	....	....	....	..	..	.....	.....
....	...	45	45	45	45	11	....	....	....	45	....	....	45	....	....	....	....	..	..	.....	.....
5	...	34	34	34	34	21	14	14	5	34	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	13	7	7	....	44	3	1	44	....	....	....	....	..	..	.....	.....
14	...	33	33	33	33	33	33	33	14	33	13	20	.....	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	14	1	1	....	33	....	....	33	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	40	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	46	30	30	....	46	13	....	.....	....	....	....	....	..	..	.....	.....
23	...	36	36	36	36	36	36	36	23	36	21	15	.....	....	....	....	....	..	..	.....	.....
....	...	34	34	34	34	34	34	34	....	34	3	11	.....	....	....	....	....	..	..	.....	.....
....	...	50	50	50	50	.....	.....	.....	....	50	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	32	.....	.....	....	44	....	....	.....	....	....	....	....	..	..	.....	.....
36	...	36	36	36	36	36	36	36	36	36	18	18	.....	....	....	....	....	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	19	21	.....	....	....	....	....	..	..	.....	.....
43	...	43	43	43	43	43	43	43	43	43	26	17	.....	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	46	46	46	....	46	20	26	46	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	48	48	48	...	48	24	24	48	....	....	....	....	..	..	.....	.....
....	...	49	49	49	49	49	15	15	....	49	....	....	49	....	....	....	....	..	..	.....	.....
....	...	50	50	50	50	32	.....	.....	....	50	....	....	50	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	30	30	30	30	.....	.....	.....	....	30	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	....	....	....	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	14	27	.....	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	46	46	46	....	46	29	17	.....	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	36	19	19	....	36	10	9	36	....	....	....	....	..	..	.....	.....
....	...	30	30	30	30	.....	.....	.....	....	30	....	....	30	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	.....	.....	.....	....	33	....	....	33	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	23	.....	.....	....	37	....	....	37	....	....	....	....	..	..	.....	.....
11	...	31	31	31	31	31	31	31	11	31	7	12	.....	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	9	.....	.....	....	33	....	....	33	....	....	....	....	..	..	.....	.....
14	...	35	35	35	35	35	35	14	35	7	5	....	.....	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	15	.....	.....	....	40	....	....	40	....	....	....	....	..	..	.....	.....
4	...	42	42	42	42	26	19	19	4	42	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	.....
533	...	2445	2445	2445	2445	1563	1176	1176	533	2445	468	491	1324	....	....	....	....	..	..	.....	.....
24	...	24	24	24	24	24	24	24	24	24	10	8	.....	....	....	....	....	..	..	15,660 00	32,091 91
....	...	29	29	29	29	29	17	17	....	29	3	8	29	....	....	....	....	..	..	.....	.....
...	...	36	36	36	36	4	.....	.....	....	36	....	....	.....	....	....	....	....	..	..	.....	.....
14	...	32	32	32	32	32	32	32	14	32	3	17	.....	....	....	....	....	..	..	.....	.....
....	...	27	27	27	27	12	.....	.....	....	27	....	....	.....	....	....	....	....	..	..	.....	.....
21	...	42	42	42	42	42	42	42	21	42	13	17	42	....	....	....	....	..	..	.....	.....
....	...	29	29	29	29	10	.....	.....	....	29	....	....	.....	....	....	....	....	..	..	.....	.....
20	...	36	36	36	36	36	36	36	20	36	16	18	.....	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	15	.....	.....	....	33	....	....	.....	....	....	....	....	..	..	.....	.....

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Chilliwack—*Continued.*			$										
Fairfield Island	Miss F. B. Eason	3rd Class	1,000	183½	38	23	15	33.39	14	5	....	8	11
Lotbinière, 1st Division	C. E. Davies	2nd "	1,000	179	39	16	23	34.94	....	....	....	....	20
" 2nd "	Mrs. P. E. Patterson	3rd "	840	179	39	15	24	29.07	7	3	7	10	12
Parson's Hill	Miss E. I. Crankshaw	Temporary	840	152	20	13	5	10.66	3	1	4	3	7
Promontory Flats	Miss M. T. Libby	3rd Class	840	184½	12	5	7	10.33	3	4	....	....	....
Rosedale, 1st Division	J. D. Siddons	Academic	1,200	187½	45	26	19	37.22	....	....	....	....	21
" 2nd "	Miss D. H. Kipp	3rd Class	900	187½	48	23	25	41.34	....	....	....	33	15
" 3rd "	Miss L. Wilson	3rd "	840	187½	37	20	17	28.97	20	6	3	8	....
Sardis, 1st Division	Wm. Robertson	2nd "	1,500	178	39	15	24	31.31	....	....	....	....	....
" 2nd "	Miss H. K. Whistler	2nd "	1,000	178	48	26	22	36.72	....	....	....	....	48
" 3rd "	Miss M. V. Sleightholm	2nd "	880	178	35	23	12	27.76	....	....	9	26	....
" 4th "	Miss M. G. Archibald	2nd "	840	178	36	20	16	26.40	28	8	....	....	....
Strathcona, 1st Div.	Miss A. H. Matheson	Academic	1,000	187	37	12	25	30.52	....	....	....	....	10
" 2nd "	Miss C. C. Watson	3rd Class	900	187	36	20	16	25.00	13	5	2	7	9
Sumas	Miss M. Easthope	Temporary	840	152½	27	15	12	15.77	9	....	2	7	5
Vedder Creek	Miss O. Nichols	2nd Class	840	188	15	11	4	11.11	4	2	2	2	3
Yarrow	Miss L. H. Gow	2nd "	840	187	14	8	6	11.11	1	1	....	2	2
Manual Training Inst.	A. G. Jamieson	Man. Train.	1,600	....	....	....	....	....	....	....	....	....	....
					853	437	416	....	142	54	54	159	235
Coldstream:													
Coldstream	Mrs. M. E. Soule	Temporary	1,200	186½	36	18	18	31.51	2	2	6	4	9
Lavington	Miss O. M. Macklin	2nd Class	1,200	185	42	18	24	23.88	11	4	3	7	11
					78	36	42	....	13	6	9	11	20
Coquitlam:													
Blue Mountain, 1st Div.	R. G. Sprinkling	2nd Class	1,200	187	24	18	6	21.51	....	....	....	....	5
" 2nd "	Miss E. E. Bournes	3rd "	1,100	187	37	21	16	31.68	10	8	4	15	....
Coquitlam, East	Miss M. A. Lawrence	2nd "	900	186½	13	8	5	11.01	2	....	2	....	7
The Glen	Miss L. M. Hardy	2nd "	1,000	187	20	7	13	14.56	5	....	3	5	3
Millside, 1st Division	Miss G. Parker	1st "	1,150	187	19	12	7	17.55	....	....	....	3	12
" 2nd "	Miss C. G. Davy	2nd "	950	169	43	23	20	25.59	27	6	10	....	....
Silver Valley	Miss M. L. A. Ebert	2nd "	950	178	12	1	11	11.47	2	....	....	5	2
					168	90	78	.....	46	14	19	28	29
Delta:													
Annacis Island	Miss J. MacDonald	3rd "	900	187½	10	3	7	9.59	2	....	....	4	2
Annieville	Miss F. E. Edwards	3rd "	1,000	184½	33	22	11	28.85	6	2	6	3	9
Boundary Bay	J. A. Cairns	2nd "	1,000	183	33	13	20	25.88	8	3	4	5	9
Canoe Pass	Miss R. J. Fielder	2nd "	1,000	180½	36	15	21	29.53	9	3	3	7	13
Delta, East	Miss V. Richardson	3rd "	900	179½	18	12	6	13.45	7	1	3	2	3
Inverholme	Miss C. P. Williams	3rd "	900	183½	29	11	18	23.66	7	1	1	9	6
Ladner, 1st Division	Geo. H. Campbell	1st "	2,200	186	25	15	10	23.31	....	....	....	....	....
" 2nd "	Mrs. J. M. Hutchinson	3rd "	1,500	184	37	12	25	33.84	....	....	....	....	23
" 3rd "	Miss E. H. Atkey	2nd "	1,000	180	51	29	22	40.04	....	....	....	18	33
" 4th "	Miss M. M. Lanning	Academic	1,060	187	41	16	25	34.09	....	14	13	14	....
" 5th "	Miss D. L. Cook	2nd Class	1,060	179	36	22	14	32.07	36	....	....	....	....
Mosher Siding	Miss C. M. McLeod	3rd "	900	181½	15	10	5	13.38	1	1	1	5	4
Sunbury	Miss P. Larsen	2nd "	900	183½	47	24	23	31.75	19	....	5	5	10
Trenant	Miss G. J. Kellock	Temporary	1,000	186½	31	15	16	23.44	5	2	4	5	4
Westham Island	Miss R. I. Weston	1st Class	960	185	21	10	11	15.36	....	2	....	5	9
Manual Training Inst.	C. Rickard	Man. Train.	1,000	....	....	....	....	....	....	....	....	....	....
Domestic Science Inst.	Miss S. E. Malcolm	Dom. Science	720	....	....	....	....	....	....	....	....	....	....
					463	229	234	.....	100	29	40	82	125
Esquimalt:													
Esquimalt, 1st Division	L. Tait	1st Class	2,400	....	....	....	....	....	....	....	....	....	....
" 2nd "	H. L. Campbell	1st "	2,000	187½	44	14	30	37.78	....	....	....	....	....
" 3rd "	Miss C. P. Mackinnon	Academic	1,125	187½	35	19	16	31.26	....	....	....	....	....
" 4th "	Miss D. F. Boyden	1st Class	1,125	187½	37	22	15	22.59	....	....	....	....	....
" 5th "	Miss L. M. Knappett	2nd "	1,320	187½	39	20	19	34.77	....	....	....	....	39
" 6th "	Miss P. E. Spragge	1st "	1,075	187½	39	21	18	31.78	....	....	....	....	39
" 7th "	H. B. Smith	Temporary	1,050	187½	41	19	22	37.11	....	....	....	....	41
" 8th "	Miss M. V. Colbert	3rd Class	1,050	187½	38	14	24	32.96	....	....	....	23	15
" 9th "	Miss A. W. Johnson	1st "	1,050	187½	42	19	23	36.79	....	....	....	42	....
" 10th "	Miss E. M. Collister	3rd "	900	187½	42	21	21	36.96	....	....	....	42	....
" 11th "	Miss K. M. Parkinson	2nd "	960	187½	33	19	14	27.73	....	33	....	....	....
" 12th "	Miss F. Smith	2nd "	1,050	188	45	24	21	31.64	....	1	44	....	....
" 13th "	Miss E. J. Harvey	1st "	1,050	187½	42	23	19	30.21	....	....	42	....	....
" 14th "	Miss G. G. Riddell	Temporary	1,200	187½	43	24	19	33.07	....	43	....	....	....
" 15th "	Miss R. Mackay	3rd Class	1,050	187½	46	24	22	34.84	46	....	....	....	....
Manual Training Inst.	F. Waddington	Man. Train.	2,000	....	....	....	....	....	....	....	....	....	....
Domestic Science Inst.	Miss A. C. McKinnon	Dom. Science	1,100	....	....	....	....	....	....	....	....	....	....
					566	283	283	.....	46	77	86	107	134

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		
																				$ cts.	$ cts.
....	...	38	38	38	38	19	11	11	....	38	1	11	....	....	....	....	....	..	..	.....	.....
19	...	39	39	39	39	39	39	39	19	39	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	22	12	12	....	39	....	....	.....	....	....	....	....	..	..	.....	.....
2	...	20	20	20	20	12	9	9	2	20	....	4	.....	....	....	....	....	..	..	.....	.....
5	...	12	12	12	12	5	5	5	5	12	5	7	.....	....	....	....	....	..	..	.....	.....
24	...	45	45	45	45	45	45	45	24	45	26	19	.....	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	48	15	15	...	48	....	....	48	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	8	.....	.....	.....	37	....	....	37	....	....	....	....	..	..	.....	.....
39	...	39	39	39	39	39	39	39	39	39	15	24	.....	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	48	48	48	...	48	18	22	48	....	....	....	....	..	..	.....	.....
....	...	35	35	35	35	26	.....	.....	.....	35	....	....	35	....	....	....	....	..	..	.....	.....
...	...	36	36	36	36	.....	.....	.....	.....	36	....	....	36	....	....	....	....	..	..	.....	.....
27	...	37	37	37	37	37	37	37	27	37	12	25	.....	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	16	9	9	....	36	....	....	36	....	....	....	....	..	..	.....	.....
4	...	27	27	27	27	16	9	9	4	27	....	....	27	....	....	....	....	..	..	.....	.....
2	...	15	15	15	15	7	5	5	2	15	....	....	.....	....	....	....	....	..	..	.....	.....
8	...	14	14	14	14	12	10	10	8	14	....	...	14	....	....	....	....	..	..	.....	.....
...	...	.....	.....	.....	.....	.....	.....	.....	...	.....	.....	.....	.....	....	....	....	....	..	..	.....	.....
209	...	853	853	853	853	603	444	444	209	853	122	180	352	....	....	....	....	..	..	.....	.....
13	...	36	36	36	36	26	22	22	13	36	....	....	.....	....	....	....	....	..	..	1,160 00	2,622 93
6	...	42	42	42	42	24	17	17	6	42	....	....	42	....	....	....	....	..	..	.....	.....
19	...	78	78	78	78	50	39	39	19	78	....	....	42	....	....	....	....	..	..	.....	.....
19	...	24	24	24	24	24	24	24	19	24	....	....	.....	....	....	....	....	..	..	4,002 00	4,633 96
....	...	37	37	37	37	15	.....	.....	.....	37	....	....	37	....	....	....	....	..	..	.....	.....
2	...	13	13	13	13	9	9	9	2	13	....	....	13	....	....	....	....	..	..	.....	.....
4	...	20	20	20	20	12	7	7	4	20	....	....	.....	....	....	....	....	..	..	.....	.....
4	...	19	19	19	19	19	16	16	4	19	....	....	.....	....	....	....	....	..	..	.....	.....
...	...	43	43	43	43	.....	.....	.....	.....	43	....	....	43	....	....	....	....	..	..	.....	.....
3	...	12	12	12	12	10	5	5	3	12	....	...	12	....	....	....	....	..	..	.....	.....
32	...	168	168	168	168	89	61	61	32	168	....	....	105	....	....	....	....	..	..	.....	.....
2	...	10	10	10	10	8	4	4	2	10	....	....	10	....	....	....	....	..	..	10,790 60	16,102 43
7	...	33	33	33	33	19	16	16	7	33	....	....	.....	....	....	....	....	..	..	.....	.....
4	...	33	33	33	33	18	13	13	4	33	6	....	.....	....	....	....	....	..	..	.....	.....
1	...	36	36	36	36	21	14	14	1	36	....	....	.....	....	....	....	....	..	..	.....	.....
2	...	18	18	18	18	7	5	5	2	18	....	....	.....	....	....	....	....	..	..	.....	.....
5	...	29	29	29	29	20	11	11	5	29	....	....	.....	....	....	....	....	..	..	.....	.....
25	...	25	25	25	25	25	25	25	25	25	15	10	.....	....	....	....	....	..	..	.....	.....
14	...	37	37	37	37	37	37	37	14	37	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	51	51	51	51	51	33	33	....	51	14	10	.....	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	14	.....	.....	.....	41	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	.....	36	....	....	36	....	....	....	....	..	..	.....	.....
3	...	15	15	15	15	12	7	7	3	15	....	....	.....	....	....	....	....	..	..	.....	.....
8	...	47	47	47	47	23	18	18	8	47	....	....	.....	....	....	....	....	..	..	.....	.....
11	...	31	31	31	31	20	15	15	11	31	...	...	.....	....	....	....	....	..	..	.....	.....
5	...	21	21	21	21	19	14	14	5	21	5	7	.....	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	..	..	.....	.....
87	...	463	463	463	463	294	212	212	87	463	40	27	46	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	..	..	11,805 80	30,442 46
44	...	44	44	44	44	44	44	44	44	44	14	30	44	....	....	....	....	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	19	16	35	....	....	....	....	..	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	22	15	37	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	39	39	...	39	20	19	39	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	21	18	39	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	41	41	41	....	41	...	22	.....	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	38	15	15	..	38	....	...	38	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	42	.....	.....	.....	42	....	23	42	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	42	.....	.....	.....	42	....	21	42	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	.....	.....	.....	.....	33	....	....	33	....	....	....	....	..	..	.....	.....
...	...	45	45	45	45	.....	.....	.....	..	45	....	....	45	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	.....	42	....	....	42	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	...	43	....	....	43	....	....	....	....	..	..	.....	.....
....	...	46	46	46	46	.....	.....	.....	.....	46	....	....	46	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	..	..	.....	.....
116	...	566	566	566	566	357	250	250	116	566	96	120	525	....	....	....	....	..	..	.....	.....

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Kent:			$										
Agassiz, 1st Division	Miss E. M. Laxton	2nd Class	1,260	181½	40	21	19	34.74	....	....	....	....	....
" 2nd "	Miss M. L. Wade	2nd "	1,140	187	34	16	18	29.88	....	....	....	....	34
" 3rd "	Miss R. Bess	2nd "	1,020	187	43	25	18	32.22	....	....	15	28	....
" 4th "	Miss M. F. McCorkell	3rd "	1,200	188	33	20	13	28.24	26	7	....	....	....
Harrison River	Miss M. G. Smith	3rd "	900	185	19	15	4	16.72	5	2	....	2	5
					169	97	72	.....	31	9	15	30	39
Langley:													
Aldergrove, 1st Div.	Miss A. M. Gillespie	1st "	1,200	187	35	15	20	29.26	....	....	....	....	19
" 2nd "	Miss M. McInnes	3rd "	960	187	30	18	12	25.56	14	2	9	5	....
Alexander Road	Miss E. M. Ray	3rd "	900	56½	24	13	11	20.56	8	....	5	7	4
County Line, 1st Div.	Miss M. A. E. Bilton	Temporary	1,200	186	31	15	16	30.89	....	....	....	6	17
" 2nd "	Miss M. G. Wilkie	3rd Class	1,000	58	29	20	9	24.18	16	9	4	....	....
Glen Valley, 1st Div.	Miss R. B. Hutchinson	3rd "	1,000	182	32	18	14	25.44	10	4	2	2	11
" 2nd "	Miss M. A. MacLellan	3rd "	960	69	....	....	....	14.14	(clo	sed)	....	....	....
Glenwood	Miss K. F. Johnston	2nd "	900	150	36	20	16	11.52	8	....	4	4	13
Langley, 1st Division	Miss J. A. Crawford	2nd "	1,200	187½	33	13	20	23.54	....	....	....	....	9
" 2nd "	Miss M. Fletcher	2nd "	960	187½	30	15	15	24.50	....	....	....	15	15
" 3rd "	Miss H. Freeman	2nd "	900	187½	30	15	15	21.50	12	5	13	....	....
Langley, East	Miss E. M. Brown	2nd "	960	185	31	22	9	20.19	8	....	7	9	4
Langley Prairie, 1st D.	E. E. Barnes	1st "	1,320	173	48	26	22	34.19	....	....	....	....	22
" 2nd "	Miss M. Swartman	Temporary	960	173	52	30	22	37.57	....	....	13	19	20
" 3rd "	Miss M. B. Wilkie	3rd Class	900	173	31	19	12	26.29	18	6	....	7	....
Langley, West	Miss K. Green	2nd "	900	186	33	15	18	27.21	4	8	....	8	8
Lochiel	Miss A. Olson	3rd "	900	186	21	7	14	17.22	3	1	1	2	7
Milner, 1st Division	Miss C. Wright	3rd "	1,200	186	44	19	25	33.82	....	....	....	....	27
" 2nd "	Miss A. O. Mufford	2nd "	960	188	42	25	17	34.18	12	5	8	17	....
Murrayville, 1st Div.	Miss F. L. Whitworth	2nd "	1,200	183	41	16	25	29.46	....	....	....	....	17
" 2nd "	Miss V. E. Laking	1st "	900	188	41	20	21	38.21	....	....	10	23	8
" 3rd "	Miss M. H. Hamilton	3rd "	960	188	51	32	19	37.91	27	8	16	....	....
Otter	Wm. J. Eades	3rd "	1,200	188	64	30	34	37.68	16	6	9	9	14
Patricia	Roy M. Gillespie	Temporary	1,000	182	46	29	17	30.14	3	4	5	8	16
Springbrook	Miss E. M. James	3rd Class	960	179	34	24	10	28.59	8	....	6	4	6
					889	476	413	.....	167	58	112	145	237
Maple Ridge:													
Albion	A. R. Fraser	3rd "	1,000	186	31	10	21	23.72	8	4	6	9	4
Hammond, 1st Division	Miss E. A. Trembath	2nd "	1,200	186	40	19	21	34.62	....	....	....	....	19
" 2nd "	Miss H. M. Black	2nd "	900	186½	45	21	24	35.09	5	14	2	13	11
Haney, 1st Division	Miss E. M. Morley	1st "	1,300	184½	34	14	20	26.39	....	....	....	....	....
" 2nd "	Miss M. I. Dean	1st "	1,100	186	35	20	15	31.99	....	....	....	....	35
" 3rd "	Miss M. Paterson	2nd "	900	185	46	18	28	32.69	35	11	....	....	....
" 4th "	Miss I. Sutton	2nd "	960	114	28	12	16	27.30	....	....	14	14	....
Lillooet, South	Miss E. L. Graham	2nd "	1,000	182½	20	11	9	18.02	4	1	5	5	5
Maple Ridge, 1st Div.	Miss E. A. Robinson	2nd "	1,300	184	30	14	16	26.09	....	....	....	....	....
" 2nd "	Miss G. Harrison	Temporary	1,100	185	42	23	19	33.42	....	....	....	17	25
" 3rd "	Miss B. Anderson	2nd Class	900	185	42	24	18	32.16	24	6	12	....	....
Alex. Robinson, 1st D.	Miss D. A. Lockie	3rd "	1,100	182	36	19	17	25.33	....	....	....	20	16
" 2nd "	Miss C. Marshall	3rd "	900	182	28	17	11	21.22	17	5	6	....	....
Ruskin	Miss G. N. Cutler	2nd "	1,100	183	33	21	12	25.68	13	2	1	5	2
Webster's Corners	Miss E. L. Stevens	3rd "	1,000	185	39	24	15	32.55	8	8	5	10	8
Whonnock, 1st Div.	Miss E. C. Hadden	1st "	1,200	186	26	12	14	21.29	....	....	....	....	16
" 2nd "	Miss D. E. Gilchrist	3rd "	900	186	27	16	11	21.75	12	2	4	9	....
Manual Training Inst.	F. Lowe	Man. Train	1,700	....	....	....	....	.....	....	....	....	....	....
					582	295	287	.....	126	53	55	102	141
Matsqui:													
Aberdeen, 1st Division	Mrs. J. B. McRae	2nd Class	1,080	184	22	10	12	15.36	....	....	....	....	12
" 2nd "	Miss D. K. Carruthers	2nd "	840	181½	27	12	15	19.40	11	1	4	11	....
Bradner, 1st Div. (Sup.)	N. Auburn	1st "	1,300	167	11	4	7	8.31	....	....	....	....	....
" 2nd "	Miss A. H. Gladwin	Academic	1,020	167	22	14	8	16.96	....	....	....	....	14
" 3rd "	Miss E. M. Manning	Temporary	840	162	36	22	14	27.19	6	10	7	13	....
Clayburn, 1st Division	G. E. Apps	2nd Class	1,080	186	40	16	24	31.93	....	....	....	....	21
" 2nd "	Miss M. P. Jones	2nd "	900	184½	41	20	21	35.11	12	7	8	14	....
Dunach	Miss D. L. Laxton	2nd "	900	184½	13	6	7	10.82	2	....	3	2	2
Glenmore	Miss S. C. Kennedy	Temporary	900	184	27	13	14	22.76	5	3	6	....	11
Jubilee	Miss G. K. Nankivell	2nd Class	840	185½	21	11	10	10.59	10	1	....	1	7
Matsqui, 1st Division	Miss A. R. Weatherbee	1st "	1,080	183	40	27	13	31.77	....	....	....	....	27
" 2nd "	Miss R. Turnbull	2nd "	840	188	38	19	19	30.83	19	....	11	8	....
Mount Lehman, 1st D.	Miss G. Forester	Academic	1,160	184½	25	15	10	21.23	....	....	....	....	....
" 2nd "	Miss F. E. Waite	2nd Class	900	186	29	19	10	25.05	1	7	8	5	8
Peardonville	Miss F. A. MacLeod	3rd "	900	174	30	15	15	19.60	5	3	3	7	8
Poplar	Miss M. C. Stenerson	2nd "	900	181	32	15	17	21.21	11	1	2	2	12

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			
																					$ cts.	$ cts.
40	...	40	40	40	40	40	40	40	40	40	...	....	.....	....	...	...	...	..	..		3,480 00	6,825 35
....	...	34	34	34	34	34	34	34	....	34	....	18	34	....	...	...	...	..	..		.....	.....
....	...	43	43	43	43	28	.. .	. ..	....	43	....	....	43	....	...	...	...	..	..		.....	.....
....	...	33	33	33	33	.....	.....	.....	.....	33	....	....	33	....	...	...	...	..	..		.....	.....
5	...	19	19	19	19	12	10	10	5	19	....	....	19	....	...	...	...	..	..		.....	.....
45	...	169	169	169	169	114	84	84	45	169	...	18	129	....	...	...	...	..	..		.....	.....
16	...	35	35	35	35	35	35	35	16	35	....	....	.....	....	...	...	...	..	..		14,500 00	24,057 50
....	...	30	30	30	30	5	.....	.....	....	30	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	24	24	24	24	11	4	4	....	24	....	....	24	....	...	...	...	..	..		.....	.....
8	...	31	31	31	31	31	25	25	8	31	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	29	29	29	29	.....	.....	.....	.....	29	....	....	.....	....	...	...	...	..	..		.....	.....
3	...	32	32	32	32	16	14	14	3	32	....	....	.....	....	...	...	...	..	..		.....	.....
7	...	36	36	36	36	24	20	20	7	36	....	...	36	....	...	...	...	..	..		.....	.....
24	...	33	33	33	33	33	33	33	24	33	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	30	30	30	30	30	15	15	....	30	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	30	30	30	30	.....	.....	.....	.....	30	....	....	.....	....	...	...	...	..	..		.....	.....
3	...	31	31	31	31	16	7	7	3	31	...	....	31	....	...	...	...	..	..		.....	.....
26	...	48	48	48	48	48	48	48	26	48	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	52	52	52	52	39	20	20	....	52	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	31	31	31	31	7	.....	.....	.....	31	....	....	.....	....	...	...	...	..	..		.....	.....
5	...	33	33	33	33	21	13	13	5	33	....	....	.....	....	...	...	...	..	..		.....	.....
7	...	21	21	21	21	16	14	14	7	21	....	....	.....	....	...	...	...	..	..		.....	.....
17	...	44	44	44	44	44	44	44	17	44	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	42	42	42	42	17	.....	.....	.....	42	....	....	.....	....	...	...	...	..	..		.....	.....
24	...	41	41	41	41	41	41	41	24	41	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	41	41	41	41	31	8	8	....	41	....	....	41	....	...	...	...	..	..		.....	.....
....	...	51	51	51	51	....	.....	.....	.....	51	....	....	.....	....	...	...	...	..	..		.....	.....
10	...	64	64	64	64	33	24	24	10	64	....	....	.....	....	...	...	...	..	..		.....	.....
10	...	46	46	46	46	34	26	26	10	46	....	....	.....	....	...	...	...	..	..		.....	.....
10	...	34	34	34	34	20	16	16	10	34	....	....	34	....	...	...	...	..	..		.....	.....
170	...	889	889	889	889	552	407	407	170	889	....	....	91	....	...	...	...	..	..		.....	.....
....	...	31	31	31	31	13	4	4	....	31	....	...	31	....	...	...	...	..	..		11,368 00	17,849 04
21	...	40	40	40	40	40	40	40	21	40	12	21	.....	....	...	...	...	..	..		.....	.....
....	...	45	45	45	45	24	11	11	....	45	....	..	.....	....	...	...	...	..	..		.....	.....
34	...	34	34	34	34	34	34	34	34	34	14	20	.....	....	...	...	...	..	..		.....	.....
....	.	35	35	35	35	35	35	35	....	35	20	....	.....	....	...	...	...	..	..		.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	...	...	...	..	..		.....	.....
....	...	28	28	28	28	14	.....	.....	....	28	....	....	28	...	...	...	...	..	..		.....	.....
....	...	20	20	20	20	10	5	5	....	20	....	....	20	....	...	...	...	..	..		.....	.....
30	...	30	30	30	30	30	30	30	30	30	14	16	.....	....	...	...	...	..	..		.....	.....
....	...	42	42	42	42	42	25	25	....	42	9	....	.....	....	...	...	...	..	..		.....	.....
....	...	42	42	42	42	.....	.....	.....	.....	42	....	....	42	....	...	...	...	..	..		.....	.....
....	...	36	36	36	36	36	16	16	....	36	11	17	36	....	...	...	...	..	..		.....	.....
....	...	28	28	28	28	.....	.....	.....	.....	28	...	....	28	....	...	...	...	..	..		.....	.....
10	...	33	33	33	33	17	12	12	10	33	6	11	33	....	...	...	...	..	..		.....	.....
....	...	39	39	39	39	18	8	8	....	39	....	....	39	....	...	...	...	..	..		.....	.....
10	. .	26	26	26	26	26	26	26	10	26	12	14	26	....	...	...	...	..	..		.....	.....
....	...	27	27	27	27	9	.....	.....	....	27	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	.....	....	...	...	...	..	..		.....	.....
105	...	582	582	582	582	348	246	246	105	582	98	99	329	....	...	...	...	..	..		.....	.....
10	...	22	22	22	22	22	22	22	10	22	....	....	.....	....	...	..	...	..	..		11,554 90	21,650 76
....	...	27	27	27	27	11	.....	... .	...	27	....	....	.....	....	...	...	...	..	..		.....	.....
5	6	11	7	5	7	5	7	5	11	11	....	....	.....	6	6	2	5	5	4		.....	.....
8	...	22	22	22	22	22	22	22	8	22	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	36	36	36	36	13	.....	.....	.....	36	....	....	.....	....	...	...	...	..	..		.....	.....
19	...	40	40	40	40	40	40	40	19	40	....	....	.....	....	...	...	...	..	..		.....	.....
...	...	41	41	41	41	14	.....	.....	.....	41	....	....	.....	....	...	...	...	..	..		.....	.....
4	...	13	13	13	13	8	6	6	4	13	....	....	.....	....	...	...	...	..	..		.....	.....
2	...	27	27	27	27	13	13	13	2	27	....	....	.....	....	...	...	...	..	..		.....	.....
2	...	21	21	21	21	10	9	9	2	21	....	....	.....	....	...	...	...	..	..		.....	.....
13	...	40	40	40	40	40	40	40	13	40	....	....	.....	....	...	...	...	..	..		.....	.....
....	...	38	38	38	38	8	.....	.....	.....	38	....	....	.....	....	...	...	...	..	..		.....	.....
20	5	25	25	20	25	20	25	20	25	25	....	....	.....	5	5	5	5	..	..		.....	.....
....	...	29	29	29	29	13	8	8	....	29	....	....	.....	....	...	...	...	..	..		.....	.....
4	...	30	30	30	30	19	12	12	4	30	....	....	30	....	...	...	...	..	..		.....	.....
4	...	32	32	32	32	18	16	16	4	32	....	....	.....	....	...	...	...	..	..		.....	.....

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Matsqui—*Continued.*			$										
Ridgedale, 1st Division.	Miss L. E. Owen	2nd Class	1,020	188	26	16	10	17.55	....	....	....	....	15
" 2nd "	Miss J. M. Hardie	3rd "	840	188	37	19	18	27.32	17	4	8	8	....
					517	273	244	.....	99	37	60	71	137
Mission:													
Dewdney	Miss I. M. Marshall	3rd "	1,080	185	32	21	11	28.23	12	5	4	11	....
Ferndale	Miss D. M. Mann	2nd "	900	183	26	14	12	22.66	8	4	....	7	5
Hatzic, 1st Division	Wm. A. Stafford	2nd "	1,220	182	27	22	5	23.05	....	....	....	....	12
" 2nd "	Miss H. E. Bates	2nd "	960	183½	29	13	16	18.79	11	....	5	8	5
Mission, 1st Division	A. H. Webb	1st "	1,900	181	33	13	20	29.99	....	....	....	....	....
" 2nd "	H. A. Eckardt	Academic	1,500	181	37	23	14	29.66	....	....	....	....	....
" 3rd "	Miss K. S. Freeman	2nd Class	960	186	37	17	20	31.92	....	....	....	....	37
" 4th "	Miss M. H. Fisher	2nd "	900	186	40	30	10	32.77	....	....	....	....	40
" 5th "	Miss Z. K. Topper	2nd "	1,060	186	43	26	17	35.58	....	....	15	28	....
" 6th "	Miss N. Z. Barr	3rd "	900	182	38	20	18	27.77	23	15	....	....	....
" 7th "	Miss A. M. Verchère	3rd "	960	186	41	24	17	32.16	41	....	....	....	....
" 8th "	C. A. Gibbard	2nd "	960	117	37	16	21	33.19	....	....	....	....	18
Silverdale	Miss M. White	Temporary	900	179	31	20	11	29.98	6	3	3	9	9
Silverhill	Miss A. N. Dew	2nd Class	840	182	23	10	13	21.17	2	....	3	8	7
Stave Falls	Miss M. B. Paterson	3rd "	840	184½	19	10	9	17.34	5	2	2	2	5
Stave River Gardens	Miss E. S. Williams	3rd "	900	181½	12	3	9	9.17	4	3	....	3	2
Steelhead	Miss M. A. Brackett	2nd "	840	180	26	13	13	12.55	7	2	8	....	6
Manual Training Inst.	C. Illingworth	Man. Train.	1,800	....	....	....	....	.....	....	....	....	....	....
Domestic Science Inst.	Miss V. B. Rabb	Dom. Science	1,500	....	....	....	....	.....	....	....	....	....	....
					531	295	236	.....	119	34	40	76	146
Oak Bay:													
Monterey Ave., 1st Div.	F. G. Dexter	1st Class	2,587.50	187½	32	13	19	28.99	....	....	....	....	....
" 2nd "	Miss I. Cathcart	2nd "	1,650	182½	39	16	23	35.26	....	....	....	....	....
" 3rd "	Miss E. C. Shaw	2nd "	1,100	187½	34	17	17	31.96	....	....	....	....	34
" 4th "	Mrs. A. V. Wollaston	2nd "	1,155	187½	47	26	21	36.64	....	....	....	....	47
" 5th "	Miss E. C. Howard	2nd "	1,100	187½	40	22	18	31.99	....	....	....	40	....
" 6th "	Miss E. Croston	2nd "	1,155	187½	37	22	15	29.13	....	....	37	....	....
" 7th "	Miss A. B. Cooke	2nd "	1,350	187½	55	21	34	38.24	28	27	....	....	....
Willows, 1st Division	W. E. Hoadley	1st "	2,587.50	187½	25	13	12	23.01	....	....	....	....	....
" 2nd "	Miss B. Brynjolfson	1st "	1,300	187½	29	16	13	25.51	....	....	....	....	....
" 3rd "	Miss A. M. Brown	2nd "	1,100	187½	33	16	17	26.74	....	....	....	....	33
" 4th "	Miss O. D. L. Alexander	1st "	950	187½	44	17	27	39.17	....	....	....	....	44
" 5th "	Miss I. S. Brandon	2nd "	950	187½	36	19	17	33.55	....	....	....	36	....
" 6th "	Miss M. B. Burrell	2nd "	950	187½	36	22	14	32.28	....	....	11	25	....
" 7th "	Mrs. A. L. Rhodes	2nd "	1,300	187½	51	24	27	37.11	34	17	....	....	....
					538	264	274	.....	62	44	48	101	158
Peachland:													
Peachland, 1st Division	B. F. McLeod	Academic	1,500	182½	25	14	11	21.64	....	....	....	....	....
" 2nd "	Miss R. E. Johnson	2nd Class	1,100	188½	45	23	22	34.56	....	....	....	....	45
" 3rd "	Miss E. A. Carter	1st "	1,100	188½	35	19	16	24.46	16	10	6	3	....
Trepanier	Miss A. E. Elliott	1st "	900	185½	15	9	6	12.86	1	3	...	2	6
					120	65	55	.....	17	13	6	5	51
Penticton:													
Ellis, 1st Division	A. S. Matheson	1st "	2,400	182	41	18	23	35.85	....	....	....	....	....
" 2nd "	Miss M. K. Currie	1st "	1,650	182	41	16	25	37.61	....	....	....	....	....
" 3rd "	Miss E. MacLachlan	1st "	1,440	184	41	24	17	35.54	....	....	....	....	....
" 4th "	Miss E. A. Thomas	1st "	1,260	186	39	22	17	32.37	....	....	....	....	3
" 5th "	Miss A. L. MacLachlan	2nd "	1,260	184½	45	20	25	38.24	....	....	....	....	45
" 6th "	Miss A. M. Rogers	1st "	1,200	188	47	21	26	37.57	....	....	....	....	47
" 7th "	Miss F. E. Martin	2nd "	1,260	187	44	19	25	38.07	....	....	....	....	44
" 8th "	Miss H. I. Eagel	2nd "	1,100	187	46	23	23	39.47	....	....	....	....	46
" 9th "	Miss C. J. Glanville	2nd "	1,140	185	51	21	30	42.65	....	....	....	51	....
" 10th "	Miss H. R. Russell	2nd "	1,110	183	46	25	21	38.57	....	....	....	46	....
" 11th "	Miss C. D. Y. Pitblado	Academic	1,320	181½	49	27	22	42.06	....	....	49	....	....
" 12th "	Miss K. E. Love	3rd Class	1,100	185	48	19	29	41.04	....	35	13	....	....
" 13th "	Miss A. Whiting	2nd "	1,380	187	46	17	29	39.43	28	18	....	....	....
" 14th "	Miss I. A. Huntley	2nd "	1,380	185	44	22	22	36.05	44	....	....	....	....
Poplar Grove	Miss M. Timaeus	1st "	1,320	181½	35	14	21	27.01	6	....	7	10	4
Manual Training Inst.	W. K. Woodcock	Man. Train.	1,800	....	....	....	....	.....	....	....	....	....	....
Domestic Science Inst.	Miss M. B. Wentzell	Dom. Science	1,500	....	....	....	....	.....	....	....	....	....	....
					663	308	355	.....	78	53	69	107	189
Pitt Meadows:													
Pitt Meadows	Miss A. Fetterly	2nd Class	1,000	181½	29	14	15	25.25	10	2	1	7	3
Richardson	Miss L. C. Becker	2nd "	900	187½	20	12	8	14.00	5	2	4	3	5
					49	26	23	.....	15	4	5	10	8

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																						Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.				
																						$ cts.	$ cts.
11	...	26	26	26	26	26	26	26	11	26	....	....	.....	....	....	....	....	..	..			.....	.....
....	...	37	37	37	37	8	.....	.....	....	37	....	....	.....	....	....	....	....	..	..			.....	.....
102	11	517	513	506	513	310	246	239	113	517	....	....	30	11	11	7	10	5	4			.....	.....
....	...	32	32	32	32	11	.....	.....	....	32	....	....	.....	....	....	....	....	..	..			12,528 00	17,935 71
2	...	26	26	26	26	14	7	7	2	26	2	....	.....	....	....	....	....	..	..			.....	.....
15	...	27	27	27	27	27	27	27	15	27	22	5	.....	....	....	....	....	..	..			.....	.....
....	...	29	29	29	29	13	5	5	....	29	....	....	29	....	....	....	....	..	..			.....	.....
33	...	33	33	33	33	33	33	33	33	33	13	20	33	....	....	....	....	..	..			.....	.....
37	...	37	37	37	37	37	37	37	37	37	23	14	37	....	....	....	....	..	..			.....	.....
....	...	37	37	37	37	37	37	37	....	37	17	20	37	....	....	....	....	..	..			.....	.....
...	...	40	40	40	40	40	40	40	....	40	30	10	40	....	....	....	....	..	..			.....	.....
....	...	43	43	43	43	28	.....	.....	....	43	10	11	43	....	....	....	....	..	..			.....	.....
...	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	....	....	....	..	..			.....	.....
...	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	....	....	....	....	..	..			.....	.....
19	...	37	37	37	37	37	37	37	19	37	16	21	37	....	....	....	....	..	..			.....	.....
1	...	31	31	31	31	19	10	10	1	31	7	9	.....	....	....	....	....	..	..			.....	.....
2	...	23	23	23	23	18	10	10	3	23	....	....	.....	....	....	....	....	..	..			.....	.....
3	..	19	19	19	19	10	8	8	3	19	....	....	19	....	....	....	....	..	..			.....	.....
....	...	12	12	12	12	5	2	2	....	12	....	....	12	....	....	....	....	..	..			.....	.....
3	..	26	26	26	26	9	9	9	3	26	....	....	26	....	....	....	....	..	..			.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	..	..			.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	..	..			.....	.....
116	...	531	531	531	531	338	262	262	116	531	140	110	392	....	....	....	....	..	..			.....	.....
32	...	32	32	32	32	32	32	32	32	32	....	....	32	....	....	....	....	..	..			10,440 00	113,477 44
39	...	39	39	39	39	39	39	39	39	39	....	....	39	....	....	....	....	..	..			.....	.....
....	...	34	34	34	34	34	34	34	....	34	....	....	34	....	....	....	....	..	..			.....	.....
....	...	47	47	47	47	47	47	47	....	47	....	....	47	....	....	....	....	..	..			.....	.....
....	...	40	40	40	40	40	.....	.....	....	40	....	....	40	....	....	....	....	..	..			.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	.....	....	....	....	....	..	..			.....	.....
...	...	55	55	55	55	.....	.....	.....	....	55	....	....	.....	....	....	....	....	..	..			.....	.....
25	...	25	25	25	25	25	25	25	25	25	...	....	12	....	....	....	....	..	..			.....	.....
29	...	29	29	29	29	29	29	29	29	29	....	....	29	....	....	....	....	..	..			.....	.....
...	...	33	33	33	33	33	33	33	....	33	....	....	33	....	....	....	....	..	..			.....	.....
....	...	44	44	44	44	44	44	44	....	44	....	....	44	....	....	....	....	..	..			.....	.....
....	...	36	36	36	36	36	.....	.....	....	36	....	....	36	....	....	....	....	..	..			.....	.....
....	...	36	36	36	36	25	.....	.....	....	36	....	....	36	....	....	....	....	..	..			.....	.....
....	...	51	51	51	51	.....	.....	.....	....	51	....	....	.....	....	....	....	....	..	..			.....	.....
125	...	538	538	538	538	384	283	283	125	538	...	....	382	....	....	....	....	..	..			.....	.....
25	...	25	25	25	25	25	25	25	25	25	....	....	.....	....	....	....	....	..	..			2,900 00	5,190 88
....	...	45	45	45	45	45	45	45	....	45	....	....	45	....	....	....	....	..	..			.....	.....
....	...	35	35	35	35	3	.....	.....	....	35	....	....	35	....	....	....	....	..	..			.....	.....
3	..	15	15	15	15	11	9	9	3	15	....	....	.....	....	....	....	....	..	..			.....	.....
28	...	120	120	120	120	84	79	79	28	120	....	....	80	....	....	....	....	..	..			.....	.....
41	...	41	41	41	41	41	41	41	41	41	18	23	.....	....	....	....	....	..	..			11,020 00	94,576 88
41	...	41	41	41	41	41	41	41	41	41	16	25	.....	....	....	....	....	..	..			.....	.....
41	...	41	41	41	41	41	41	41	41	41	24	17	.....	....	....	....	....	..	..			.....	.....
36	...	39	39	39	39	39	39	39	36	39	22	17	.....	....	....	....	....	..	..			.....	.....
...	...	45	45	45	45	45	45	45	....	45	....	....	.....	....	....	....	....	..	..			.....	.....
....	...	47	47	47	47	47	47	47	....	47	21	25	.....	....	....	....	....	..	..			.....	.....
...	...	44	44	44	44	44	44	44	....	44	19	25	.....	....	....	....	....	..	..			.....	.....
....	...	46	46	46	46	46	46	46	....	46	23	23	46	....	....	....	....	..	..			.....	.....
....	...	51	51	51	51	51	.....	.....	....	51	....	....	51	....	....	....	....	..	..			.....	.....
....	..	46	46	46	46	46	.....	.....	....	46	....	....	46	....	....	....	....	..	..			.....	.....
....	...	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	....	....	....	..	..			.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	....	.....	....	....	....	....	..	..			.....	.....
....	...	46	46	46	46	.....	.....	.....	....	46	....	....	46	....	....	....	....	..	..			.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	.....	....	....	....	....	..	..			.....	.....
8	...	35	35	35	35	22	12	12	8	35	....	....	.....	....	....	....	....	..	..			.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	..	..			.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	....	....	.....	....	....	....	....	..	..			.....	.....
167	...	663	663	663	663	463	356	356	167	663	143	155	238	...	...	...	...	..	..			.....	.....
6	...	29	29	29	29	16	9	9	6	29	7	14	.....	....	....	....	....	..	..			1,160 00	1,688 54
1	...	20	20	20	20	9	6	6	1	20	5	4	20	....	....	....	....	..	..			.....	.....
7	...	49	49	49	49	25	15	15	7	49	12	18	20	....	....	....	....	..	..			.....	.....

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Point Grey:													
Edith Cavell, 1st Div..	Clinton H. Gray.....	1st Class....	2,754	188½	27	13	14	23.78	....	....	....	....	....
" 2nd " ..	Miss E. MacKenzie....	1st "	1,676	188½	34	15	19	26.88	....	....	....	....	1
" 3rd " ..	Miss E. Chaster.....	2nd "	1,322	188½	33	16	17	32.93	....	....	....	....	33
" 4th " ..	Miss V. M. Hand.....	2nd "	1,080	188½	40	17	23	33.28	....	....	....	....	40
" 5th " ..	Miss A. E. Baxter.....	3rd "	1,240	188½	40	19	21	33.43	....	....	....	40	....
" 6th " ..	Miss N. L. Carson.....	2nd "	1,304	188½	33	15	18	28.88	....	....	33	....	....
" 7th " ..	Miss E. J. Carlisle	3rd "	1,386	188½	39	20	19	29.39	19	20	....	....	....
" 8th " ..	Miss H. M. Hesson.....	2nd "	1,728	188½	36	15	21	27.62	36	....	....	....	....
Kerrisdale, 1st Division	Miss E. B. Park	2nd "	2,512	188½	34	13	21	32.08	....	....	....	....	....
" 2nd "	Alexander Finlayson....	1st "	2,000	188½	46	22	24	42.02	....	....	....	....	22
" 3rd "	Mrs. J. Hodnett.....	2nd "	1,080	188½	41	18	23	35.99	....	....	....	....	41
" 4th "	Miss H. M. Smith.....	2nd "	1,712	188½	38	21	17	32.45	....	....	....	38	....
" 5th "	Miss C. H. Anderson....	3rd "	1,548	188½	47	24	23	38.37	....	21	26	....	....
" 6th "	Miss J. A. Renwick.....	2nd "	1,240	188½	40	23	17	31.39	40	....	....	....	....
" 7th "	Miss J. Porter.....	1st "	1,566	188½	32	22	10	26.84	32	....	....	....	....
" 8th "	Mrs. J. T. Hawthorne...	Temporary ..	1,080	96	32	17	15	29.46	....	....	10	....	22
Lord Kitchener, 1st D.	P. C. Feast.....	2nd Class....	2,400	187½	31	18	13	24.55	....	....	....	....	19
" 2nd "	G. M. Hinsley.....	2nd "	1,240	187½	36	20	16	32.58	....	....	....	....	36
" 3rd "	Miss F. A. McQueen.....	2nd "	1,240	187½	47	28	19	39.24	....	....	15	32	....
" 4th "	Mrs. L. M. Hicks	3rd "	1,240	187½	42	23	19	36.10	31	11	....	....	....
Magee, 1st Division...	W. McDonagh.....	1st "	2,754	188	39	20	19	30.82	....	....	....	....	....
" 2nd " ..	Miss J. E. Gillis.....	Temporary ..	1,322	188	39	17	22	35.98	....	....	....	....	2
" 3rd " ..	Miss D. M. Martin.....	2nd Class....	1,080	188	47	22	25	40.89	....	....	....	....	47
" 4th " ..	Miss A. V. Rombough...	3rd "	1,080	188	44	30	14	37.29	....	....	....	....	44
" 5th " ..	Miss H. C. Allan.....	2nd "	1,386	187	43	21	22	37.91	....	....	37	6	....
" 6th " ..	Miss N. B. Scarth.....	2nd "	1,080	188	35	22	13	34.44	14	21	....	....	....
" 7th " ..	Miss M. B. Philip	2nd "	1,360	188	30	17	13	26.08	30	....	....	....	....
" 8th " ..	Miss D. I. Lyness	2nd "	1,080	96	37	17	20	33.35	....	....	....	37	....
Marpole, 1st Division..	Bruce E. Harvey.....	1st "	2,754	188	46	22	24	40.14	....	....	....	....	....
" 2nd " ..	Oliver Lacey.....	1st "	2,000	188	41	19	22	34.38	....	....	....	....	....
" 3rd " ..	Miss F. Mulloy.....	2nd "	1,744	188	41	24	17	37.08	....	....	....	....	41
" 4th " ..	Miss M. I. Cook.....	1st "	1,256	188	38	25	13	34.69	....	....	....	....	38
" 5th " ..	Miss R. MacArthur	2nd "	1,224	181½	39	18	21	36.14	....	....	....	26	13
" 6th " ..	Miss J. B. Abernethy ...	Academic ...	1,198	181½	39	26	13	34.64	....	....	....	39	....
" 7th " ..	Miss M. K. Cameron	3rd Class....	1,402	188	42	24	18	33.41	....	....	42	....	....
" 8th " ..	Miss F. Wolstenholme...	3rd "	1,080	188	37	24	13	28.92	14	23	....	....	....
" 9th " ..	Miss D. Yewdall	3rd "	1,300	188	37	19	18	31.78	37	....	....	....	....
Prince of Wales, 1st D.	H. E. Patterson.....	1st "	2,754	188	40	24	16	34.58	....	....	....	....	....
" 2nd "	Miss J. Faunt.....	1st "	1,080	188	45	28	17	38.76	....	....	....	....	27
" 3rd "	Miss M. M. Sutherland..	2nd "	1,080	188	42	24	18	33.07	....	....	....	....	42
" 4th "	Miss A. C. Russell	2nd "	1,566	188	38	25	13	34.84	....	....	....	30	8
" 5th "	Miss A. C. Broe.....	2nd "	1,080	188	40	26	14	38.00	....	....	18	22	....
" 6th "	Miss J. M. MacDonald ..	3rd "	1,402	188	41	24	17	35.81	41	....	....	....	....
" 7th "	Miss H. M. Buckerfield..	2nd " ..	1,080	96	23	16	7	18.39	9	14	....	....	....
Queen Mary, 1st Div...	Harry E. Harvey	1st "	2,754	187	35	15	20	26.29	....	....	....	....	....
" 2nd " ..	Miss I. Bolton.....	2nd "	1,420	187	41	17	24	34.46	....	....	....	....	....
" 3rd " ..	Miss M. S. Waugh.....	2nd "	1,240	187	43	20	23	33.48	....	....	....	....	43
" 4th " ..	Miss A. L. Pirie.....	2nd "	1,322	187	40	23	17	39.41	....	....	....	....	40
" 5th " ..	Miss L. M. Simpson.....	1st "	1,484	187	52	28	24	40.48	....	....	....	52	....
" 6th " ..	Miss A. K. Chisholm....	2nd "	1,232	187	41	27	14	34.80	22	19	....	....	....
" 7th " ..	Miss M. L. Copeland....	2nd "	1,460	187	39	22	17	36.35	39	....	....	....	....
" 8th " ..	Miss I. M. M. Kennedy..	2nd "	1,080	96	37	24	13	31.68	....	14	23	....	....
Manual Training Inst.	T. Dodson.....	Man. Train..	2,050	....	....	....	....	....	....	....	....	....	....
"	J. W. Parker	" "	1,850	....	....	....	....	....	....	....	....	....	....
Drill.....	F. Lawrence.....	Drill	1,700	....	....	....	....	....	....	....	....	....	....
Domestic Science Inst.	Miss L. F. Mackay.....	Dom. Science	1,990	....	....	....	....	....	....	....	....	....	....
"	Miss M. G. Davidson....	" "	1,440	....	....	....	....	....	....	....	....	....	....
Music.....	Mrs. A. C. Sumner.....	Music	1,942	....	....	....	....	....	....	....	....	....	....
					2019	1089	930	.....	364	143	204	322	559
Richmond:													
Bridgeport, 1st Div....	Miss K. McNeely.....	2nd Class....	2,200	186	38	16	22	34.48	....	....	....	....	....
" 2nd "	Miss H. Estabrook.....	Academic....	1,480	186	46	25	21	34.27	....	....	....	....	....
" 3rd "	Miss P. L. McKay.....	2nd Class....	1,280	185	43	26	17	33.01	....	....	....	....	43
" 4th "	Miss R. Laing.....	2nd "	1,100	185	42	25	17	33.63	....	....	....	....	42
" 5th "	Miss E. Pentland.....	1st "	1,150	185	42	26	16	37.90	....	....	....	42	....
" 6th "	Miss H. D. Horsman	2nd "	1,000	185	45	27	18	34.70	....	15	30	....	....
" 7th "	Miss J. M. McMyn.....	3rd "	1,300	185	36	18	18	33.82	36	....	....	....	....
" 8th "	Miss W. E. Harrison....	1st "	1,100	186	25	11	14	24.06	14	11	....	....	....
English, 1st Division...	F. R. Lewis.....	2nd "	1,300	185	24	10	14	21.47	....	....	....	....	10
" 2nd " ..	Miss M. Hartin.....	2nd "	1,200	185	26	13	13	19.50	9	4	5	8	....
Lulu.....	Miss I. M. Hoey.....	2nd "	1,060	186	30	19	11	25.90	10	1	3	8	8
Mitchell	Miss M. E. Elder.....	3rd "	1,100	173	40	21	19	29.52	13	2	3	15	7
Sea Island	Miss E. Floyd.....	2nd "	1,060	185½	48	22	26	39.97	38	9	1	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		
																				$ cts.	$ cts.
27	...	27	27	27	27	27	27	27	27	27	13	14	..	....	....	....	....	..	..	38,860 00	351,083 86
33	...	34	34	34	34	34	34	34	33	34	15	19	34	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	33	33	33	....	33	16	17	33	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	40	40	40	....	40	17	23	40	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	40	.....	.....	....	40	....	....	40	....	....	....	....	..	..	.....	.....
...	...	33	33	33	33	.....	.....	.....	..	33	....	....	33	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	...	39	....	....	39	....	....	....	....	..	..	.....	.....
...	...	36	36	36	36	.....	.....	.....	...	36	..	....	36	....	....	....	....	..	..	.....	.....
34	...	34	34	34	34	34	34	34	34	34	13	21	.....	....	....	....	....	..	..	.....	.....
24	...	46	46	46	46	46	46	46	24	46	22	24	46	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	41	41	41	....	41	18	23	41	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	38	.....	.....	....	38	....	....	38	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	....	....	47	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	40	....	....	....	....	..	..	.....	.....
....	...	32	32	32	32	.....	.....	.....	....	32	....	....	32	....	....	....	....	..	..	.....	.....
....	...	32	32	32	32	22	22	22	....	32	12	10	32	....	....	....	....	..	..	.....	.....
12	...	31	31	31	31	31	31	31	12	31	18	13	31	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	36	36	36	....	36	20	16	36	....	....	....	....	..	..	.....	.....
....	...	47	47	47	47	32	....	....	....	47	....	....	....	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	..	42	....	....	42	....	....	....	....	..	..	.....	.....
39	...	39	39	39	39	39	39	39	39	39	20	19	.....	....	....	....	....	..	..	.....	.....
37	...	39	39	39	39	39	39	39	37	39	17	22	39	....	....	....	....	..	..	.....	.....
...	...	47	47	47	47	47	47	47	....	47	22	25	47	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	30	14	.....	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	6	....	.....	....	43	....	....	43	....	....	....	....	..	..	.....	.....
....	...	35	35	35	35	.....	.....	.....	....	35	....	....	35	....	....	....	....	..	..	.....	.....
....	...	30	30	30	30	.....	.....	.....	....	30	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	37	.....	.....	....	37	....	....	37	....	....	....	....	..	..	.....	.....
46	...	46	46	46	46	46	46	46	46	46	22	24	.....	..	....	....	....	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	19	22	41	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	41	41	41	...	41	24	17	41	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	38	38	38	...	38	25	13	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	13	13	....	39	....	....	39	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	39	.....	.....	....	39	...	....	39	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	.....	.....	....	....	37	....	....	37	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	....	....	....	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	24	16	.....	....	....	....	....	..	..	.....	.....
18	...	45	45	45	45	45	45	45	18	45	28	17	45	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	42	42	42	....	42	24	18	42	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	38	8	8	....	38	3	5	38	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	22	.....	.....	....	40	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	41	....	....	....	....	..	..	.....	.....
....	...	23	23	23	23	.....	.....	.....	....	23	....	....	23	....	....	....	....	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	15	20	.....	....	....	....	....	..	..	.....	.....
41	...	41	41	41	41	41	41	41	41	41	17	24	41	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	20	23	43	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	40	40	40	...	40	23	17	40	....	....	....	....	..	..	.....	.....
...	...	52	52	52	52	52	.....	.....	....	52	....	....	52	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	....	.....	.....	....	41	....	....	41	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	....	.....	.....	....	37	....	....	....	....	....	....	....	..	..	.....	.....
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427	...	2019	2019	2019	2019	1308	986	986	427	2019	497	476	1562	....	....	....	....	..	..	.....	.....
38	...	38	38	38	38	38	38	38	38	38	....	....	.....	....	....	....	....	..	..	11,600 00	28,166 82
46	...	46	46	46	46	46	46	46	46	46	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	42	42	42	....	42	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	42	.....	.....	....	42	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	...	45	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	....	....	.....	....	....	....	....	..	..	.....	.....
...	...	25	25	25	25	.....	.....	.....	....	25	....	....	25	....	....	....	....	..	..	.....	.....
14	...	24	24	24	24	24	24	24	14	24	....	....	24	....	....	....	....	..	..	.....	.....
....	...	26	26	26	26	8	.....	.....	....	26	....	....	26	....	....	....	....	..	..	.....	.....
....	...	30	30	30	30	16	8	8	....	30	....	....	30	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	22	7	7	...	40	....	....	40	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	11	48	....	....	....	....	..	..	.....	.....

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Richmond—*Continued.*			$										
Steveston, 1st Division.	G. T. Evans	Academic	1,400	184½	43	20	23	29.71	....	....	....	....	36
" 2nd "	Miss M. Edwards	3rd Class	1,100	182½	34	19	15	28.00	....	....	11	23	....
" 3rd "	Miss M. E. Jones	2nd "	1,100	184	42	27	15	35.95	19	23	....	....	....
Trites	Miss G. E. McMyn	3rd "	1,100	180	23	11	12	20.34	5	....	6	3	6
					627	336	291	.....	144	65	59	99	152
Saanich:													
Cedar Hill, 1st Division	W. M. McMichael	2nd "	1,405	185½	31	14	17	25.13	....	....	....	....	....
" 2nd "	Miss E. Creeden	2nd "	1,095	185½	32	15	17	27.69	....	....	....	11	21
" 3rd "	Miss J. E. Dunnett	2nd "	1,045	172½	33	21	12	32.12	....	10	20	3	....
" 4th "	Miss J. V. Bruskey	Academic	1,170	149½	38	18	20	29.35	38	....	....	....	....
Cloverdale, 1st Division	Miss B. Alward	1st Class	1,886	181½	30	11	19	28.50	....	....	....	....	..
" 2nd "	Miss G. Ledingham	2nd "	1,295	184	34	19	15	30.33	....	....	....	....	....
" 3rd "	Miss M. V. Bradshaw	2nd "	1,120	185	30	10	20	25.18	....	....	....	....	30
" 4th "	Miss M. Chandler	3rd "	1,020	185	39	17	22	35.53	....	....	....	....	39
" 5th "	Miss L. Woodward	2nd "	820	185	35	17	18	31.85	....	....	....	35	....
" 6th "	Miss P. E. Jennings	2nd "	945	185	36	20	16	33.22	....	1	35	....	....
" 7th "	Miss M. Robertson	1st "	870	167	37	12	25	28.90	....	37	....	....	....
" 8th "	Miss V. Parfit	2nd "	945	149½	33	19	14	24.65	33	....	....	....	....
Craigflower, 1st Div.	Miss M. J. Ozard	1st "	1,630	186	31	20	11	24.89	....	....	....	....	....
" 2nd "	Miss A. Sjolander	2nd "	1,095	186	40	20	20	34.36	....	....	....	....	40
" 3rd "	Miss H. Huddleston	2nd "	820	186	26	14	12	20.05	....	....	11	15	....
" 4th "	Miss M. Beattie	Academic	1,020	186	31	20	11	24.54	26	5	....	....	....
Gordon Head, 1st Div.	Miss E. A. Revercombe	2nd Class	1,045	184	25	12	13	22.82	....	....	....	....	14
" 2nd "	Miss M. E. O'Neill	1st "	870	174	18	12	6	16.08	5	3	5	5	....
Keating, 1st Division	Mrs. N. Parbery	2nd "	1,195	185	33	16	17	28.60	....	..	....	....	13
" 2nd "	Miss M. MacKenzie	3rd "	1,095	185	36	22	14	27.55	7	5	8	16	....
Model, 1st Division	Miss K. Scanlon	2nd "	1,920	188½	37	12	25	34.71	....	....	....	....	21
" 2nd "	Miss I. M. F. Barron	2nd "	1,560	188½	42	25	17	38.50	12	....	15	15	....
MacKenzie Ave., 1st D.	J. O. Welch	1st "	1,675	185½	24	12	12	21.74	....	....	....	....	....
" 2nd "	Miss R. Drennan	Academic	945	185	33	14	19	27.24	....	....	....	....	33
" 3rd "	Miss M. Mackinnon	3rd Class	1,095	185	45	27	18	31.08	....	....	....	29	16
" 4th "	Miss G. M. Thorpe	2nd "	820	185	44	24	20	33.02	....	10	34	....	....
" 5th "	Miss H. Ballantyne	Academic	1,095	185	36	14	22	26.47	36	..	....	....	....
North Dairy, 1st Div.	Miss E. C. Lucas	"	1,045	186	29	14	15	22.69	....	....	....	....	24
" 2nd "	Miss E. B. McKeil	2nd Class	870	186	41	21	20	31.62	14	5	10	12	....
Prospect Lake, 1st Div.	H. Cumberbirch	Academic	1,345	186	18	12	6	17.06	....	....	....	....	9
" 2nd "	Miss E. Birkett	2nd Class	945	116	24	11	13	20.64	9	8	4	3	....
Royal Oak, 1st Div.	Miss M. P. Kinnaird	1st "	1,195	186	36	25	11	24.99	....	....	....	....	18
" 2nd "	Miss M. Anderson	1st "	945	186	48	24	24	35.58	10	15	13	10	....
Saanichton, 1st Div.	J. K. Keenan	1st "	1,045	186	27	10	17	21.46	....	....	....	....	12
" 2nd "	Miss M. C. Bissett	2nd "	1,170	182	23	10	13	22.75	3	3	3	11	3
Saanich, West, 1st Div.	J. E. Sanders	Temporary	1,045	186	39	22	17	29.21	....	....	....	....	20
" 2nd "	Miss J. E. Anderson	2nd Class	1,095	186	28	13	15	26.77	4	4	4	16	....
Strawberry Vale, 1st D.	Miss E. E. Williams	2nd "	1,285	186	31	18	13	24.98	....	....	....	....	17
" 2nd "	W. S. Butterfield	3rd "	820	186	48	24	24	40.56	....	....	14	16	18
" 3rd "	Miss V. E. Lemmax	2nd "	945	186	38	19	19	29.55	28	3	7	....	....
Tillicum Road, 1st Div.	W. O'Neill	1st "	1,750	186	31	13	18	30.71	....	....	....	....	....
" 2nd "	Miss I. Creeden	3rd "	820	186	41	21	20	37.43	....	....	....	....	41
" 3rd "	Miss M. Cameron	2nd "	895	186	38	21	17	33.43	....	....	....	38	....
" 4th "	Miss E. M. Patrick	1st "	820	186	23	14	9	22.03	....	13	10	....	....
" 5th "	Miss M. K. Offerhaus	2nd "	1,100	185½	43	21	22	36.96	15	28	....	....	....
Tolmie, 1st Division	J. O'Neill	1st "	2,185	185½	25	10	15	21.61	....	....	....	....	....
" 2nd "	Miss N. Berton	2nd "	1,495	181½	30	18	12	25.60	....	....	....	....	....
" 3rd "	Miss E. M. Beane	2nd "	1,295	181½	38	14	24	29.18	....	....	....	....	38
" 4th "	Miss M. G. Service	2nd "	1,095	184½	33	15	18	30.44	....	....	....	....	33
" 5th "	Miss V. A. Harman	Academic	1,170	185½	38	13	25	31.40	....	....	....	....	38
" 6th "	Miss E. C. Haddow	2nd Class	970	185	37	26	11	30.28	....	....	....	37	....
" 7th "	Miss E. M. Shampeny	2nd "	945	185½	31	16	15	29.04	....	....	11	20	....
" 8th "	Miss A. E. Carne	3rd "	970	184½	42	19	23	35.14	....	....	42	....	....
" 9th "	Miss M. Corbett	2nd "	1,020	185½	44	30	14	35.30	19	25	....	....	....
" 10th "	Miss N. L. Dill	1st "	1,095	185½	45	29	16	34.59	45	....	....	....	....
Manual Training Inst.	J. W. Hunter	Man. Train.	1,885	..	....	....	....	.....	....	....	....	....	....
					1878	960	918	.....	304	175	246	292	498
Salmon Arm:													
Broadview	Miss E. I. Browne	2nd Class	1,000	190	34	20	14	22.08	5	....	6	9	10
Canoe	Miss E. V. Clancy	Temporary	1,160	187	21	6	15	18.92	3	....	1	8	6
Canoe Creek, North	Miss A. E. Chambers	2nd Class	1,000	189	20	9	11	15.64	1	2	2	3	6
Canoe Creek, South	Miss A. M. Turner	2nd "	1,060	188½	37	15	22	26.42	5	5	7	7	4
Gleneden	Miss M. Preston	2nd "	1,100	185	42	23	19	28.58	3	3	4	10	16
Mount Ida	Miss A. E. Scales	1st "	1,160	185	26	14	12	18.98	2	....	4	5	5

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																							
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
7	...	43	43	43	43	43	43	43	7	43	....	....	43	....	....	....	....	..	..	.....	.....
....	...	34	34	34	34	23	.....	.....	....	34	....	....	34	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
3	...	23	23	23	23	12	9	9	3	23	....	....	.....	....	....	....	....	..	..	.....	.....
108	..	627	627	627	627	359	260	260	108	627	....	11	312	....	....	....	....	..	..	.....	.....
31	...	31	31	31	31	31	31	31	31	31	14	17	.....	....	....	....	....	..	..	31,204 00	77,522 26
....	..	32	32	32	32	32	21	21	....	32	9	17	32	....	....	....	....	..	..	.....	.....
....	..	33	33	33	33	3	.....	.....	....	33	....	....	.....	....	....	....	....	..	..	.....	.....
....	..	38	38	38	38	.....	.....	.....	....	38	....	....	.....	....	....	....	....	..	..	.....	.....
30	...	30	30	30	30	30	30	30	30	30	11	19	30	....	....	....	....	..	..	.....	.....
34	...	34	34	34	34	34	34	34	34	34	19	15	34	....	....	....	....	..	..	.....	.....
...	...	30	30	30	30	30	30	30	....	30	10	20	30	....	....	....	....	..	..	.....	.....
...	..	39	39	39	39	39	39	39	....	39	17	22	39	....	....	....	....	..	..	.....	.....
....	...	35	35	35	35	35	...	.....	....	35	....	35	35	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	....	....	36	....	....	....	....	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	.....	.....	.....	....	33	....	....	33	....	....	....	....	..	..	.....	.....
31	...	31	31	31	31	31	31	31	31	31	20	11	31	....	....	....	....	..	..	.....	.....
....	...	40	40	40	40	40	40	40	....	40	20	20	40	....	....	....	....	..	..	.....	.....
....	...	26	26	26	26	15	.....	.....	....	26	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	31	31	31	31	.....	.....	.....	....	31	....	....	31	....	....	....	....	..	..	.....	.....
11	...	25	25	25	25	25	25	25	11	25	12	13	25	....	....	....	....	..	..	.....	.....
....	...	18	18	18	18	5	.....	.....	....	18	....	....	18	....	....	....	....	..	..	.....	.....
20	...	33	33	33	33	33	33	33	20	33	16	17	33	....	....	....	....	..	..	.....	.....
...	...	36	36	36	36	16	.....	.....	....	36	....	....	36	....	....	....	....	..	..	.....	.....
16	...	37	37	37	37	37	37	37	16	37	12	25	37	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	15	.....	.....	....	42	....	....	42	....	....	....	....	..	..	.....	.....
24	...	24	24	24	24	24	24	24	24	24	12	12	24	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	33	33	33	....	33	14	19	33	....	....	....	....	..	..	.....	.....
....	...	45	45	45	45	45	16	16	....	45	11	5	45	....	....	....	....	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	....	....	....	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	....	36	....	....	36	....	....	....	....	..	..	.....	.....
5	...	29	29	29	29	29	29	29	5	29	14	15	29	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	12	.....	.....	....	41	....	....	.....	....	....	....	....	..	..	.....	.....
9	...	18	18	18	18	18	18	18	9	18	8	....	18	....	....	....	....	..	..	.....	.....
....	...	24	24	24	24	3	.....	.....	....	24	....	....	24	....	....	....	....	..	..	.....	.....
18	...	36	36	36	36	36	36	36	18	36	25	11	36	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	10	.....	.....	....	48	....	....	48	....	....	....	....	..	..	.....	.....
15	...	27	27	27	27	27	27	27	15	27	10	17	27	....	....	....	....	..	..	.....	.....
....	...	23	23	23	23	14	3	3	....	23	....	....	23	....	....	....	....	..	..	.....	.....
19	...	39	39	39	39	39	39	39	19	39	....	....	39	....	....	....	....	..	..	.....	.....
....	...	28	28	28	28	16	.....	.....	....	28	....	....	28	....	....	....	....	..	..	.....	.....
14	...	31	31	31	31	31	31	31	14	31	7	18	31	....	....	....	....	..	..	.....	.....
....	...	48	48	48	48	34	18	18	....	48	7	24	48	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	....	....	....	..	..	.....	.....
31	...	31	31	31	31	31	31	31	31	31	13	....	31	....	....	....	....	..	..	.....	.....
....	...	41	41	41	41	41	41	41	....	41	21	20	.....	....	....	....	....	..	..	.....	.....
...	...	38	38	38	38	38	.....	.....	....	38	....	....	38	....	....	....	....	..	..	.....	.....
....	...	23	23	23	23	.....	.....	.....	....	23	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	.....	....	....	....	....	..	..	.....	.....
25	...	25	25	25	25	25	25	25	25	25	10	15	25	....	....	....	....	..	..	.....	.....
30	...	30	30	30	30	30	30	30	30	30	18	12	30	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	38	38	38	....	38	14	24	38	....	....	....	....	..	..	.....	.....
....	...	33	33	33	33	33	33	33	....	33	15	18	.....	....	....	....	....	..	..	.....	.....
....	...	38	38	38	38	38	38	38	....	38	13	25	38	....	....	....	....	..	..	.....	.....
...	...	37	37	37	37	37	...	.....	....	37	....	....	37	....	....	....	....	..	..	.....	.....
....	...	31	31	31	31	20	.....	.....	....	31	....	....	31	....	....	....	....	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	.....	....	....	....	....	..	..	.....	.....
....	..	44	44	44	44	.....	.....	.....	....	44	....	....	44	....	....	....	....	..	..	.....	.....
...	...	45	45	45	45	.....	.....	.....	....	45	....	....	45	....	....	....	....	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
363	...	1878	1878	1878	1878	1153	861	861	363	1878	372	461	1527	.....	.....	.....	.....	.....	.....	.....	.....
4	...	34	34	34	34	23	14	14	4	34	....	....	.....	....	....	....	....	..	..	4,640 00	8,622 12
3	...	21	21	21	21	17	9	9	3	21	....	....	.....	....	....	....	....	..	..	.....	.....
6	...	20	20	20	20	15	12	12	6	20	....	....	.....	....	....	....	....	..	..	.....	.....
9	...	37	37	37	37	20	13	13	9	37	....	....	.....	....	....	....	....	..	..	.....	.....
6	...	42	42	42	42	32	22	22	6	42	....	....	42	....	....	....	....	..	..	.....	.....
10	...	26	26	26	26	20	15	15	10	26	....	....	26	....	....	....	....	..	..	.....	.....

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Salmon Arm—*Continued.*			$										
Salmon Arm, W., 1st D.	Miss E. F. Ireland	1st Class	1,500	188	26	12	14	24.00	....	....	....	....	17
" 2nd "	Miss L. A. Raby	2nd "	1,060	182½	26	16	10	27.13	....	11	5	10	....
					232	115	117	.....	19	21	29	52	64
Sumas:													
Huntingdon, 1st Div.	Miss C. H. Moore	1st "	1,200	181	35	18	17	26.07	....	....	....	....	12
" 2nd "	Miss A. M. Miller	2nd "	1 050	185½	30	20	10	20.17	10	3	7	2	8
Kilgard	Miss F. E. Lawrence	2nd "	960	178	19	9	10	12.81	7	1	4	3	1
Musselwhite	Miss F. W. Pears	2nd "	900	186	21	13	8	14.12	1	2	....	5	11
Straiton	Miss I. M. McKay	3rd "	900	154½	25	13	12	15.72	8	2	5	....	1
Sumas, Upper, 1st Div.	Miss M. T. Fadden	2nd "	1,100	190	19	8	11	18.29	....	....	....	....	5
" 2nd "	Miss L. E. Rees	2nd "	840	96	24	8	16	20.70	8	3	5	8	....
					173	89	84	.....	34	11	21	18	38
Summerland:													
Central, 1st Division	S. MacDonald	1st "	2,000	186½	37	17	20	31.94	....	....	....	....	....
" 2nd "	D. Davidson	3rd "	1,300	186½	34	17	17	29.30	....	....	....	....	....
" 3rd "	Miss B. T. Ball	2nd "	1,200	186½	39	20	19	32.25	....	....	....	....	39
" 4th "	Miss J. E. Nicholson	2nd "	1,200	186½	50	26	24	43.06	....	....	....	....	50
" 5th "	Miss A. R. Dale	1st "	1,200	186½	46	22	24	39.63	....	....	....	31	15
" 6th "	Miss K. M. Elliott	2nd "	1,020	186½	45	22	23	34.60	....	....	27	18	....
" 7th "	Mrs. G. Denton	2nd "	1,200	186½	32	14	18	26.20	12	20	....	....	....
" 8th "	Miss F. M. Banks	2nd "	1,380	186½	40	24	16	30.90	40	....	....	....	....
Trout Creek	Miss G. Logie	2nd "	900	187	21	11	10	15.24	3	2	3	13	....
Manual Training Inst.	C. Baker	Man. Train.	1,800	....	....	....	....	....	....	....	....	....	....
					344	173	171	.. ..	55	22	30	62	104
Surrey:													
Anniedale	Miss F. W. Ardiel	2nd Class	1,000	183½	24	13	11	15.97	7	3	....	5	5
Clayton	Miss M. Y. Barlow	Temporary	900	177½	41	21	20	25.67	8	5	1	5	13
Cloverdale, 1st D.	Miss J. S. Bryson	2nd Class	1,200	185	47	25	22	38.40	...	....	....	....	....
" 2nd "	Miss M. G. Callander	2nd "	1,000	185	40	22	18	31.75	....	....	....	....	40
" 3rd "	Miss V. M. Hawn	3rd "	1,000	185	39	19	20	29.78	....	....	11	28	....
" 4th "	Miss M. W. Griffiths	1st "	900	185	31	16	15	25.09	22	9	....	....	....
Colebrook	Miss F. Perram	3rd "	1,000	182	19	11	8	15.12	2	2	....	6	7
Crescent Beach	Miss W. Ross	3rd "	900	178	33	17	16	27.28	4	5	....	6	7
Hall's Prairie, 1st Div.	Miss O. E. Wagg	3rd "	900	184	45	19	26	32.98	....	....	....	....	24
" 2nd "	Miss M. Philip	3rd "	1,100	184	30	16	14	21.87	13	2	8	7	....
Johnston Road, 1st D.	Miss E. V. Clements	2nd "	900	185	11	7	4	9.63	....	....	....	....	9
" 2nd "	Miss I. G. Davis	2nd "	1,100	184	37	18	19	31.20	4	....	10	11	12
Kensington, East	Miss G. C. Ardiel	3rd "	900	181½	33	17	16	27.76	....	4	6	8	9
Kensington Prairie, 1st Div.	W. H. W. Hardwick	2nd "	1,100	184½	25	9	16	20.18	....	....	....	....	12
" 2nd Div.	Miss L. Girling	2nd "	900	183	22	14	8	19.22	8	4	....	10	....
Mud Bay	Miss M. G. MacDonald	2nd "	900	179	32	19	13	20.99	5	3	2	4	11
Newton	Miss L. H. Fitzgerald	1st "	900	180½	41	17	24	30.02	7	2	6	10	11
Port Mann	Miss J. M. Geekie	2nd "	900	170	28	13	15	21.39	6	....	4	7	6
Springdale, 1st Div.	Miss R. N. Williams	1st "	1,100	184½	24	17	7	19.69	....	....	....	....	13
" 2nd "	Miss D. L. Walker	3rd "	900	184	21	11	10	19.74	2	4	5	7	3
Strawberry Hill, 1st D	Miss R. C. Archibald	1st "	900	184	28	12	16	22.14	....	....	....	....	21
" 2nd "	Miss F. E. Clarke	3rd "	900	149	34	23	11	27.42	19	9	....	6	....
Surrey Centre	Miss J. W. Inglis	Temporary	900	185	29	17	12	27.00	5	....	7	8	9
Tynehead	Miss L. M. McElwain	"	900	179	41	21	20	28.13	7	2	6	8	9
Westminster, South 1st Div.	H. L. Webb	2nd Class	1,100	183	35	19	16	18.36	....	....	....	15	11
" 2nd "	Miss S. E. Parton	3rd "	900	181	45	26	19	29.35	26	12	7	....	....
White Rock, 1st Div.	E. F. Clark	2nd "	1,100	186	41	20	21	23.43	....	....	....	....	13
" 2nd "	Mrs. A. Thompson	3rd "	900	185	41	17	24	32.77	....	....	....	19	22
" 3rd "	Miss D. M. Moffat	3rd "	1,000	176	38	11	27	29.47	18	7	13	....	....
					955	487	468	....	163	73	86	170	267
Vancouver, North:													
Capilano, 1st Division	D. M. Moore	2nd "	1,500	188	31	15	16	25.12	....	....	....	....	15
" 2nd "	Miss E. E. Williamson	2nd "	1,140	188½	51	26	25	29.36	27	7	5	7	5
Keith Lynn, 1st Div.	Miss A. J. Ferris	2nd "	1,400	189	25	13	12	20.70	....	....	....	....	20
" 2nd "	Miss B. G. Stewart	3rd "	1,300	189	32	15	17	24.85	9	9	6	8	....
Lynn Valley, 1st Div.	W. R. MacLeod	2nd "	2,400	188½	20	10	10	18.54	....	....	....	....	....
" 2nd "	Miss G. R. Montgomery	2nd "	1,450	188½	33	17	16	31.60	....	....	....	....	....
" 3rd "	Miss E. M. Brown	2nd "	1,140	188½	37	15	22	33.83	....	....	....	....	37
" 4th "	Miss M. F. Proske	2nd "	1,170	187½	35	13	22	30.17	....	....	....	....	35
" 5th "	Miss W. G. Thompson	2nd "	1,080	95½	38	22	16	34.95	....	....	....	12	26
" 6th "	Miss M. C. M. MacDonald	2nd "	1,170	187½	36	18	18	35.24	....	....	....	36	....
" 7th "	Miss A. Stewart	2nd "	1,140	188½	40	23	17	31.50	....	22	18	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		
																				$ cts.	$ cts.
9	...	26	26	26	26	26	26	26	9	26	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	26	26	26	26	10	.....	.....	....	26	....	6	26	....	....	....	....	....	..	.....	.....
47	...	232	232	232	232	163	111	111	47	232	...	6	94	....	....	....	....	....	..	.....	.....
23	...	35	35	35	35	35	35	35	23	35	....	....	.....	....	....	....	....	....	..	3,642 30	6,042 03
....	...	30	30	30	30	10	8	8	....	30	....	....	30	....	....	....	....	....	..	.....	.....
3	...	19	19	19	19	7	4	4	3	19	....	....	19	....	....	....	....	....	..	.....	.....
2	...	21	21	21	21	18	13	13	2	21	....	....	.....	....	....	....	....	....	..	.....	.....
9	...	25	25	25	25	10	10	10	9	25	....	....	.....	....	....	....	....	....	..	.....	.....
14	...	19	19	19	19	19	19	19	14	19	....	....	19	....	....	....	....	....	..	.....	.....
....	...	24	24	24	24	8	.....	.....	...	24	....	....	.....	....	....	....	....	....	..	.....	.....
51	...	173	173	173	173	107	89	89	51	173	....	....	68	....	....	....	....	....	..	.....	.....
37	...	37	37	37	37	37	37	37	37	37	17	....	.....	....	....	....	....	....	..	6,960 00	21,739 66
34	...	34	34	34	34	34	34	34	34	34	17	....	.....	....	....	....	....	....	..	.....	.....
....	...	39	39	39	39	39	39	39	....	39	20	....	.....	....	....	....	....	....	..	.....	.....
...	...	50	50	50	50	50	50	50	....	50	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	46	46	46	46	46	15	15	...	46	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	45	45	45	45	18	.....	.....	...	45	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	32	32	32	32	.....	.....	.....	....	32	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	21	21	21	21	13	.....	.....	....	21	....	....	21	....	....	....	....	....	..	.....	.....
...	...	...	...	...	...	...	...	...	...	...	....	....	.....	....	....	....	....	....	..	.....	.....
71	...	344	344	344	344	237	175	175	71	344	54	....	21	....	....	....	....	....	..	.....	.....
4	...	24	24	24	24	14	9	9	4	24	....	....	24	....	....	....	....	....	..	17,864 00	27,447 02
9	...	41	41	41	41	27	22	22	9	41	....	....	.....	....	....	....	....	....	..	.....	.....
47	...	47	47	47	47	47	47	47	47	47	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	40	40	40	40	40	40	40	....	40	....	....	40	....	....	....	....	....	..	.....	.....
....	...	39	39	39	39	28	.....	.....	....	39	....	....	.....	....	....	....	....	....	..	.....	.....
...	...	31	31	31	31	.....	.....	.....	....	31	....	....	.....	....	....	....	....	....	..	.....	.....
2	...	19	19	19	19	15	9	9	2	19	....	....	19	....	....	....	....	....	..	.....	.....
11	...	33	33	33	33	24	18	18	11	33	....	....	.....	....	....	....	....	....	..	.....	.....
21	...	45	45	45	45	45	45	45	21	45	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	30	30	30	30	7	.....	.....	....	30	....	....	.....	....	....	....	....	....	..	.....	.....
2	...	11	11	11	11	11	11	11	2	11	....	....	11	....	....	....	....	....	..	.....	.....
....	...	37	37	37	37	23	12	12	....	37	....	....	37	....	....	....	....	....	..	.....	.....
6	...	33	33	33	33	23	15	15	6	33	....	....	.....	....	....	....	....	....	..	.....	.....
13	...	25	25	25	25	25	25	25	13	25	....	....	25	....	....	....	....	....	..	.....	.....
....	...	22	22	22	22	10	.....	.....	....	22	....	....	.....	....	....	....	....	....	..	.....	.....
7	...	32	32	32	32	22	18	18	7	32	....	....	.....	....	....	....	....	....	..	.....	.....
5	...	41	41	41	41	26	16	16	5	41	....	....	41	....	....	....	....	....	..	.....	.....
5	...	28	28	28	28	18	11	11	5	28	....	....	.....	....	....	....	....	....	..	.....	.....
11	...	24	24	24	24	24	24	24	11	24	....	....	24	....	....	....	....	....	..	.....	.....
....	...	21	21	21	21	10	3	3	....	21	....	....	.....	....	....	....	....	....	..	.....	.....
7	...	28	28	28	28	28	28	28	7	28	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	34	34	34	34	6	.....	.....	....	34	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	29	29	29	29	17	9	9	....	29	....	....	.....	....	....	....	....	....	..	.....	.....
9	...	41	41	41	41	26	18	18	9	41	....	....	.....	....	....	....	....	....	..	.....	.....
9	...	35	35	35	35	35	20	20	9	35	...	....	.....	....	....	....	....	....	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	....	45	....	....	.....	....	....	....	....	....	..	.....	.....
28	...	41	41	41	41	41	41	41	28	41	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	41	41	41	41	41	22	22	...	41	....	....	.....	....	....	....	....	....	..	.....	.....
..	...	38	38	38	38	.....	.....	.....	....	38	....	....	.....	....	....	....	....	....	..	.....	.....
196	...	955	955	955	955	633	463	463	196	955	....	....	221	....	....	....	....	....	..	.....	.....
16	...	31	31	31	31	31	31	31	16	31	15	....	31	....	....	....	....	....	..	10,150 00	67,094 09
....	...	51	51	51	51	12	5	5	....	51	....	13	51	....	....	....	....	....	..	.....	.....
5	...	25	25	25	25	25	25	25	5	25	13	12	25	....	....	....	....	....	..	.....	.....
....	...	32	32	32	32	8	.....	.....	.....	32	....	....	32	....	....	....	....	....	..	.....	.....
20	...	20	20	20	20	20	20	20	20	20	10	10	.....	....	....	....	....	....	..	.....	.....
33	...	33	33	33	33	33	33	33	33	33	17	16	.....	....	....	....	....	....	..	.....	.....
....	...	37	37	37	37	37	37	37	....	37	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	35	35	35	35	35	35	35	....	35	11	22	...	....	....	....	....	....	..	.....	.....
....	...	38	38	38	38	38	26	26	....	38	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	36	36	36	36	36	.....	.....	....	36	....	....	.....	....	....	....	....	....	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	.....	....	....	....	....	....	..	.....	.....

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver, North—*Continued.*			$										
Lynn Valley, 8th Div...	Miss J. M. Elliott.	2nd Class....	1,170	188½	37	19	18	30.24	29	8	....	....	....
" 9th " ..	Miss J. P. Lees	3rd "	1,260	188½	37	21	16	25.95	37	....	....	....	....
North Star, 1st Div....	W. J. Eades	1st "	1,700	188½	39	24	15	34.46	....	....	....	....	....
" 2nd "	Miss H. M. Lanyon	Temporary ..	1,080	188½	38	23	15	30.47	....	....	....	....	38
" 3rd "	Miss A. M. Hamilton....	2nd Class....	1,300	188½	48	25	23	36.53	....	....	10	38	....
" 4th "	Miss J. S. Angus.....	Academic....	1,500	188½	39	20	19	33.00	27	12	....	....	....
Roche Point	Miss A. Crompton	2nd Class...	1,260	190	34	15	19	22.31	6	3	3	7	6
					650	334	316	.....	135	61	42	108	182
Vancouver, South:													
Brock, 1st Division.....	M. E. Schaefer.....	2nd "	2,520	187½	35	17	18	33.53	....	....	....	....	....
" 2nd "	Miss E. B. Robertson....	2nd "	1,680	187½	42	28	14	33.91	....	....	....	....	....
" 3rd "	Miss F. M. White	2nd "	1,440	187½	50	27	23	40.71	....	....	....	....	50
" 4th "	Miss O. F. Miller.....	2nd "	1,260	187½	53	29	24	41.80	....	....	....	....	53
" 5th "	Miss M. H. Walker.....	3rd "	1,020	187½	50	30	20	41.30	....	....	....	50	....
" 6th "	Mrs. M. I. C. Hall.....	2nd "	1,020	187½	45	20	25	38.60	....	....	45	....	....
" 7th "	Miss H. M. Hornby	3rd "	900	187½	37	19	18	34.78	22	....	....	15	....
" 8th "	Miss I. M. MacNairn	2nd "	1,140	187½	50	31	19	41.16	....	50	....	....	....
" 9th "	Miss E. C. Copeland	2nd "	1,260	187½	43	21	22	32.24	43	....	....	....	....
Carleton, 1st Division..	A. Martin	2nd "	2,760	187	32	11	21	30.56	....	....	....	....	....
" 2nd " ..	R. R. Smith	1st "	1,560	187	39	16	23	31.08	....	....	....	....	....
" 3rd " ..	J. D. Godfrey	1st "	1,140	187	45	22	23	35.88	....	....	....	....	....
" 4th " ..	Miss L. E. Hindle.....	1st "	1,500	187	45	23	22	35.55	....	....	....	....	....
" 5th " ..	Miss V. M. McLean	2nd "	1,140	186	46	21	25	32.82	....	....	....	....	27
" 6th " ..	Miss M. Scurrah	3rd "	1,380	187	46	18	28	37.96	....	....	....	....	46
" 7th " ..	Miss C. Spencer	3rd "	1,200	187	45	20	25	35.79	....	....	....	....	45
" 8th " ..	Miss A. E. A. Jacks.....	2nd "	1,320	187	46	21	25	39.43	....	....	....	....	46
" 9th " ..	Miss D. M. Evans	2nd "	1,200	187	48	25	23	39.45	....	....	....	....	48
" 10th " ..	Miss M. E. McDonald ...	Temporary ..	1,020	187	48	26	22	38.61	....	....	48	....	....
" 11th " ..	Miss M. Rose	1st Class....	1,140	187	45	20	25	40.59	....	....	....	45	....
" 12th " ..	Miss J. M. Bowness	3rd "	1,140	187	40	21	19	36.91	.	....	....	40	....
" 13th " ..	Miss T. V. Beatty.....	3rd "	960	187	47	19	28	38.89	....	....	....	47	....
" 14th " ..	Miss M. A. Ramsay	3rd "	1,200	186½	33	20	13	31.61	33	....	....	....	....
" 15th " ..	Miss I. M. McLeod	2nd "	900	187	48	29	19	35.10	....	48	....	....	....
" 16th " ..	Miss R. I. R. MacRae ...	2nd " ...	1,320	187	37	18	19	33.23	37	....	....	....	....
" 17th " ..	Miss A. W. Paddon	2nd "	13,80	187	40	19	21	37.21	40	....	....	....	....
" 18th " ..	Miss S. V. Ferguson.....	2nd "	1,380	187	38	24	14	35.40	38	....	....	....	....
" 19th " ..	Mrs. K. L. Clarke.....	1st "	1,140	94½	41	20	21	32.05	....	....	24	17	....
Connaught, 1st Div....	Mrs. A. M. Mitton	1st "	1,020	187½	32	16	16	26.45	....	16	7	9	....
" 2nd "	Miss B. I. Denton.....	2nd "	900	187½	32	14	18	29.07	32	....	....	....	....
Gordon, 1st Div...	N. L. Kirk	1st "	1,140	95	44	25	19	41.58	....	....	....	....	....
" 2nd " ..	Mrs. A. Duffell	1st "	1,200	95	34	18	16	31.99	....	....	....	....	34
" 3rd " ..	Mrs. F. R. Milne.....	3rd "	1,200	95	44	24	20	41.78	....	....	....	....	44
" 4th " ..	Miss A. McIntyre	2nd "	1,140	95	47	25	22	43.19	....	....	....	26	21
" 5th " ..	Miss F. Livingstone.....	2nd "	960	95	48	26	22	42.92	....	....	17	31	....
" 6th " ..	Miss G. W. Killop.....	1st "	1,020	95	39	21	18	36.13	....	10	29	....	....
" 7th " ..	Miss H. S. Pengelly.....	3rd "	900	95	47	25	22	42.59	31	16	....	....	....
" 8th " ..	Miss A. Robinson	2nd "	1,140	95	37	15	22	31.32	37	....	....	....	....
Moberly, 1st Division...	Miss E. M. Dickieson....	1st "	2,760	187½	28	14	14	26.25	....	....	....	....	....
" 2nd " ..	Miss M. D. Dewar.	2nd "	1,800	187½	36	17	19	33.99	....	....	....	....	....
" 3rd " ..	Miss E. Magee	3rd "	1,320	187½	44	21	23	38.81	....	....	....	....	44
" 4th " ..	Miss B. H. Reilly	1st "	1,380	187½	40	22	18	34.71	....	....	....	....	40
" 5th " ..	Miss A. J. Howard	1st "	1,140	187½	38	21	17	31.30	....	....	....	15	23
" 6th " ..	Miss E. Pakeman	2nd "	1,200	187½	33	17	16	28.43	....	....	....	....	33
" 7th " ..	Miss G. R. Fox	3rd "	1,140	187½	38	16	22	32.01	....	....	2	36	....
" 8th " ..	Miss R. K. St. G. Parker.	Academic....	960	187½	47	27	20	36.65	....	23	24	....	....
" 9th " ..	Miss E. M. Henderson...	2nd Class....	1,440	187½	40	20	20	35.81	40	....	....	....	....
" 10th " ..	Miss I. M. Howard	1st "	1,020	187½	37	21	16	35.49	....	13	8	16	....
" 11th " ..	Miss E. B. Colwell	2nd "	1,200	186½	38	18	20	31.70	38	....	....	....	....
R. McBride, 1st Div...	S. B. Clement	2nd "	2,760	187½	34	20	14	32.50	....	....	....	....	....
" 2nd " ..	R. Johnson.....	3rd "	1,440	187½	35	16	19	32.39	....	....	....	....	....
" 3rd " ..	Mrs. L. A. Corral	3rd "	1,440	187½	42	22	20	33.50	....	....	....	....	15
" 4th " ..	L. H. M. Breadon.....	Academic....	1,200	187½	36	14	22	31.77	....	....	9	....	27
" 5th " ..	Miss A. Jeakes.....	1st Class....	1,380	187½	43	30	13	37.95	....	....	....	....	43
" 6th " ..	Miss M. E. L. Smith	3rd "	1,260	187½	42	15	27	37.81	....	....	....	....	42
" 7th " ..	Miss J. Peebles	2nd "	1,080	187½	41	20	21	35.46	....	....	....	....	41
" 8th " ..	Miss M. B. Sing.....	1st "	1,080	187½	43	18	25	39.59	....	....	....	43	....
" 9th " ..	Miss E. L. Hill.....	1st "	1,380	187½	37	18	19	34.97	....	....	1	36	....
" 10th " ..	Miss I. V. Wood	2nd "	1,200	187½	45	26	19	42.16	....	....	45	....	....
" 11th " ..	Miss A. Hurry	2nd "	960	187½	55	30	25	44.29	18	37	....	....	....
" 12th " ..	Miss K. E. McIntosh	1st "	1,020	188	44	16	28	41.76	44	....	....	....	....
" 13th " ..	Miss O. C. Morrison.....	2nd "	(closed)	17	.....	.....	.....	33.74	....	....	....	....	....
" 14th " ..	Miss O. C. Morrison.....	2nd "	1,440	95	35	20	15	30.01	35	....	....	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																						
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	...	...	...	..	..	.....	.....
39	...	39	39	39	39	39	39	39	39	39	24	.....	.....	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	38	38	38	....	38	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	38	.....	.....	....	48	....	....	48	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	39	....	...	...	...	..	..	.....	.....
9	...	34	34	34	34	22	15	15	9	34	....	....	.....	....	...	...	...	..	..	.....	.....
122	...	650	650	650	650	412	304	304	122	650	90	73	300	....	...	...	...	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	17	18	.....	....	...	...	...	..	..	106,256 00	255,031 05
42	...	42	42	42	42	42	42	42	42	42	28	14	.....	....	...	...	...	..	..	.....	.....
....	...	50	50	50	50	50	50	50	....	50	27	23	.....	....	...	...	...	..	..	.....	.....
...	...	53	53	53	53	53	53	53	....	53	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	50	50	50	50	50	.....	.....	....	50	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	.	45	....	....	45	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	15	.....	.....	....	37	....	....	37	....	...	...	...	..	..	.....	.....
....	...	50	50	50	50	.....	.....	.....	....	50	....	....	50	....	...	...	...	..	..	.....	.....
....	...	43	43	43	43	.....	.....	.....	....	43	....	....	43	....	...	...	...	..	..	.....	.....
32	...	32	32	32	32	32	32	32	32	32	11	21	.....	....	...	...	...	..	..	.....	.....
39	...	39	39	39	39	39	39	39	39	39	16	23	.....	....	...	...	...	..	..	.....	.....
45	...	45	45	45	45	45	45	45	45	45	22	23	.....	....	...	...	...	..	..	.....	.....
45	...	45	45	45	45	45	45	45	45	45	23	22	.....	....	...	...	...	..	..	.....	.....
19	...	46	46	46	46	46	46	46	19	46	21	25	.....	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	46	46	46	....	46	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	45	45	45	....	45	13	16	.....	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	46	46	46	....	46	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	48	48	48	....	48	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	....	48	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	45	.....	.....	....	45	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	40	40	40	40	40	.....	.....	....	40	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	47	.....	.....	....	47	....	....	47	....	...	...	...	..	..	.....	.....
....	...	33	33	33	33	.....	.....	.....	....	33	....	....	33	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	....	.....	.....	....	48	....	....	48	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	40	40	40	40	.....	.....	.....	....	40	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	17	.....	.....	...	41	....	....	41	....	...	...	...	..	..	.....	.....
....	...	32	32	32	32	9	.....	.....	....	32	....	....	32	....	...	...	...	..	..	.....	.....
....	...	32	32	32	32	.....	.....	.....	....	32	....	....	32	....	...	...	...	..	..	.....	.....
44	...	44	44	44	44	44	44	44	44	44	25	19	.....	....	...	...	...	..	..	.....	.....
....	...	34	34	34	34	34	34	34	....	34	18	16	.....	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	....	....	.....	....	...	...	...	..	..	.....	.....
...	...	47	47	47	47	47	21	21	....	47	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	31	.....	.....	..	48	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	37	....	...	...	...	..	..	.....	.....
28	...	28	28	28	28	28	28	28	28	28	14	14	.....	....	...	...	...	..	..	.....	.....
36	...	36	36	36	36	36	36	36	36	36	17	19	.....	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	44	44	44	....	44	21	23	.....	....	...	...	...	..	..	.....	.....
...	..	40	40	40	40	40	40	40	...	40	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	38	23	23	....	38	...	....	38	....	...	...	...	..	..	.....	.....
....	...	33	33	33	33	33	33	33	...	33	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	36	.....	.....	....	38	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	...	....	47	....	...	...	...	..	..	.....	.....
....	...	40	40	40	40	..	.....	.....	....	40	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	16	.....	.....	....	37	...	....	37	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	...	....	38	....	...	...	...	..	..	.....	.....
34	...	34	34	34	34	34	34	34	34	34	20	14	.....	....	...	...	...	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	16	19	.....	....	...	...	...	..	..	.....	.....
27	...	42	42	42	42	42	42	42	27	42	22	20	.....	....	...	...	...	..	..	.....	.....
....	...	36	36	36	36	27	27	27	....	36	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	43	43	43	43	43	43	43	....	43	30	13	.....	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	42	42	42	....	42	...	....	42	....	...	...	...	..	..	.....	.....
....	...	41	41	41	41	41	41	41	....	41	...	....	.....	....	...	...	...	..	..	.....	.....
...	...	43	43	43	43	43	.....	.....	....	43	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	36	.....	..	....	37	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	....	...	.....	....	45	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	55	55	55	55	.....	.....	.....	....	55	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	44	44	44	44	.....	.....	.....	....	44	...	....	.....	....	...	...	...	..	..	.....	.....
....	...																				
....	...	35	35	35	35	.....	.....	.....	....	35	....	....	.....	....	...	...	...	..	..	.....	.....

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver, South—*Continued.*			$										
Sir A. Mackenzie, 1st D.	S. J. Clarke	2nd Class	2,760	186½	31	16	15	27.66	....	....	....	....	....
" 2nd "	T. Woodcock	1st "	1,560	186½	33	18	15	28.94	....	....	....	..	....
" 3rd "	Miss C. Harper	3rd "	1,200	186½	44	27	17	35.15	....	....	....	....	....
" 4th "	Miss I. Robertson	2nd "	(closed)	91½	....	....	....	36.76	....	....	....	....	....
" 5th "	Mrs. H. M. Jex	2nd "	1,440	186½	38	22	16	36.44	....	....	....	....	....
" 6th "	Miss I. Robertson	2nd "	1,380	186½	41	25	16	40.76	....	....	....	..	41
" 7th "	Miss A. G. Stewart	1st "	1,380	186½	47	19	28	41.90	....	....	....	....	47
" 8th "	Miss F. G. Percival	2nd "	1,320	186½	47	23	24	39.03	....	....	....	....	47
" 9th "	Mrs. A. Duffell	1st "	(closed)	91½	..	....	....	33.49	....	....	....	....	....
" 10th "	Miss C. C. Handy	2nd "	1,140	186½	45	26	19	41.56	....	....	....	....	45
" 11th "	Miss M. D. Robson	3rd "	960	186½	39	21	18	38.97	....	....	....	39	....
" 12th "	Miss J. Falconer	2nd "	960	186½	42	22	20	38.53	....	....	....	42	....
" 13th "	Miss A. Ainslie	3rd "	1,380	186½	41	30	11	36.17	....	....	41	....	....
" 14th "	Miss I. L. McDonald	2nd "	1,140	186½	36	22	14	34.88	....	16	20	...	....
" 15th "	Miss E. H. Calbick	2nd "	1,380	187	32	21	11	31.86	..	32	...	....	....
" 16th "	Miss E. J. Gibbs	2nd "	960	186	40	27	13	33.80	40	....	....	....	....
" 17th "	Miss M. Bancroft	1st "	1,140	186	35	20	15	32.41	35	....	....	....	....
" 18th "	Miss D. E. Peck	1st "	1,320	187	36	16	20	32.61	36	....	....	....	....
John Norquay, 1st Div.	J. A. Hamilton	2nd "	2,640	187½	35	20	15	28.80	....	....	....	24	....
" 2nd "	Miss F. O. Hamilton	1st "	1,800	187½	41	16	25	35.46	....	....	....	....	....
" 3rd "	Miss A. I. Kerr	2nd "	1,260	187½	39	17	22	38.82	....	....	....	....	39
" 4th "	Miss G. A. Gregory	2nd "	1,140	187½	46	22	24	41 46	....	....	....	....	46
" 5th "	Miss O. A. Arbuthnot	2nd "	1,140	187½	39	21	18	38.61	....	....	19	20	....
" 6th "	Miss A. L. Robinson	2nd "	1,080	187½	44	20	24	37.50	27	17	....	....	....
" 7th "	Miss K. A. Matheson	2nd "	1,260	187½	45	22	23	39.14	1	20	24	....	....
" 8th "	Miss T. A. MacKenzie	1st "	1,080	187½	42	21	21	35.94	42	....	....	....	....
Laura Secord, 1st Div.	G. S. Wate	1st "	2,400	186½	31	12	19	28.83	....	....	....	....	....
" 2nd " ..	Miss G. E. Busby	2nd "	960	91½	..	....	....	34.10	(clo	sed)	....	....	....
" 3rd " ..	Miss K. L. Litch	3rd "	1,260	186½	49	22	27	37.71	....	....	....	....	49
" 4th " ..	Miss D. Johnson	2nd "	960	186½	40	22	18	38.12	....	....	1	39	....
" 5th " ..	Miss E. D. Hammond	2nd "	1,020	186½	33	14	19	31.43	1	15	17	....	....
" 6th " ..	Miss J. H. Geddis	2nd "	1,020	186½	31	20	11	28.63	31	..	....	....	....
Lord Selkirk, 1st Div.	A. Graham	2nd "	3,000	186½	36	20	16	32.97	....	....	....	....	....
" 2nd " ..	Miss H. R. Anderson	1st "	1,920	186½	33	16	17	30.37	....	....	....	....	....
" 3rd " ..	L. H. Robb	2nd "	1,260	186½	44	18	26	37.48	....	....	....	....	....
" 4th " ..	J. H. Creighton	2nd "	1,200	186½	39	15	24	35.31	....	....	....	....	....
" 5th " ..	Miss E. J. Crowe	2nd "	1,320	186½	37	21	16	34.05	....	....	....	....	2
" 6th " ..	Miss M. B. Abel	1st "	1,200	186½	42	22	20	33.40	....	....	....	...	42
" 7th " ..	Miss K. McGeer	3rd "	1,200	186½	31	19	12	27.90	....	....	....	....	31
" 8th " ..	Miss B. H. Killip	1st "	1,140	186½	47	24	23	34.15	....	....	....	....	47
" 9th " ..	Miss M. R. Hood	3rd "	1,200	186½	35	16	19	29.45	....	....	....	....	35
" 10th " ..	Miss M. A. Jackson	1st "	1,500	186½	38	21	17	34.30	....	....	....	....	38
" 11th " ..	Miss L. H. Ternan	3rd "	1,200	186½	38	15	23	35.33	....	....	....	....	38
" 12th " ..	Miss P. G. Bowman	2nd "	1,020	186½	42	22	20	37.89	....	....	....	42	....
" 13th " ..	Miss I. McNeish	1st "	1,140	186½	29	14	15	27.23	....	....	....	29	....
" 14th " ..	Miss M. Robertson	2nd "	1,320	186½	33	18	15	29.57	....	....	....	33	....
" 15th " ..	Miss J. M. Macleod	Academic	1,020	186½	36	21	15	30.92	....	....	36	....	....
" 16th " ..	Miss E. Frost	1st Class	1,140	186½	39	17	22	36.03	....	....	39	....	....
" 17th " ..	Miss D. S. Simpson	2nd "	1,140	186½	40	24	16	36.26	....	40	....	....	....
" 18th " ..	Miss J. A. Miller	2nd "	960	186½	39	16	23	29.15	18	21	....	....	....
" 19th " ..	Miss G. Robb	2nd "	960	186½	38	16	22	35.00	38	....	....	....	....
" 20th " ..	Miss C. B. McInnes	3rd "	1,080	186½	43	27	16	37.90	43	....	....	....	....
" 21st " ..	Miss B. N. Smith	2nd "	1,140	186½	38	20	18	32.66	38	....	....	....	....
" 22nd " ..	Miss P. C. Becker	2nd "	1,440	186½	37	17	20	32.07	37	....	....	....	....
" 23rd " ..	Miss E. R. Miller	2nd "	1,020	95	34	17	17	32.84	..	....	....	34	....
Sexsmith, 1st Division.	F. A. Armstrong	Academic	2,160	187½	39	14	25	32.99	....	....	....	....	....
" 2nd "	Miss E. M. Pugh	1st Class	1,440	187½	50	23	27	39.61	....	....	....	....	50
" 3rd "	Miss G. M. Andrews	2nd "	900	187½	52	26	26	37.98	....	....	....	52	....
" 4th "	Miss M. A. Batcheler	2nd "	1,020	187½	45	28	17	33.49	...	21	24	....	....
" 5th "	Miss M. E. Cartwright	2nd "	1,080	187½	46	23	23	31.59	46	....	....	....	....
Tecumseh, 1st Division.	C. L. Thornber	2nd "	2,760	187½	39	20	19	33.44	....	....	....	....	....
" 2nd "	A. J. Devereaux	1st "	1,680	187½	29	12	17	27.32	....	....	....	....	....
" 3rd "	G. K. Sangster	3rd "	1,200	187½	40	20	20	36.36	....	....	....	....	....
" 4th "	Mrs. H. K. Smith	2nd "	1,200	187½	37	18	19	34.50	....	....	....	....	37
" 5th "	Miss G. Agar	Academic	1,200	187½	38	24	14	34.81	....	....	....	....	38
" 6th "	Miss M. Bowden	2nd Class	1,140	187½	41	18	23	34.48	....	....	....	....	41
" 7th "	Miss A. M. Pettit	1st "	1,440	187½	34	17	17	30.86	...	....	....	....	34
" 8th "	Miss M. Partridge	1st "	1,260	187½	39	20	19	34.44	....	....	....	....	39
" 9th "	Miss E. Robinson	3rd "	960	187½	39	19	20	38.01	....	....	....	39	....
" 10th "	Miss G. L. Nicholson	2nd "	1,080	187½	40	17	23	34.88	....	....	....	40	....
" 11th "	Miss E. B. Livingstone	1st "	1,020	187½	37	17	20	34.79	....	....	37	....	....
" 12th "	Miss E. Pakeman	2nd "	(closed)	92½	....	....	....	33.28	....	....	....	....	....
" 13th "	Miss S. E. Robinson	2nd "	1,140	187½	39	15	24	36.95	...	16	23	....	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

| NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY. | | |

RURAL MUNICIPAL SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Vancouver, South—*Continued.*			$										
Tecumseh 14th Division	Miss M. I. Irwin	2nd Class	960	188	30	17	13	29.51	....	19	11	....	.....
" 15th "	Miss A. Gemmell	1st "	1,440	187	38	20	18	31.39	38	....	....	....	.....
" 16th "	Miss A. L. Paddon	2nd "	1,320	187½	36	26	10	34.63	36	....	...	...	.....
" 17th "	Miss V. M. Smith	3rd "	1,260	187½	42	20	22	36.61	42	....	....	....	.....
Van Horne, 1st Div.	J. A. Clarke	1st "	2,280	187½	23	15	8	20.06	....	....	....	....	.....
" 2nd "	R. M. Luckraft	Academic	1,440	187½	45	18	27	40.28	....	..	....	....	.....
" 3rd "	Miss F. M. Nesbit	2nd Class	1,260	187½	45	26	19	42.14	....	....	....	...	45
" 4th "	Miss M. L. Jones	2nd "	1,440	187½	50	27	23	40.78	....	....	....	1	49
" 5th "	Miss G. W. Franklin	2nd "	960	187½	50	28	22	41.86	....	....	37	13	.....
" 6th "	Miss G. W. Irvine	2nd "	1,020	187½	47	33	14	39.90	26	21	....	....	.....
" 7th "	Miss E. L. McLellan	2nd "	1,080	187½	50	23	27	36.48	50	....	....	....	.....
" 8th "	Miss E. M. Fraser	3rd "	1,020	95	51	31	20	41.90	....	....	....	51	.....
Wolfe, 1st Division	A. H. Macdonald	1st "	2,880	187½	35	14	21	31.67	....	....	...	....	.....
" 2nd "	E. R. Shearman	2nd "	1,800	187½	38	22	16	33.38	....	....	....	....	.....
" 3rd "	Miss E. M. Mutch	1st "	1,200	187½	43	20	23	38.52	..	....	....	....	20
" 4th "	Miss A. B. Dunsmuir	2nd "	1,440	187½	46	24	22	36.27	....	....	....	....	.....
" 5th "	Miss A. C. Loughead	3rd "	1,320	187½	42	20	22	35.80	....	....	....	....	42
" 6th "	Miss M. C. Kay	2nd "	1,320	187½	39	16	23	34.74	....	....	....	....	39
" 7th "	Miss M. L. Lewis	2nd "	1,140	187½	42	21	21	37.27	....	....	....	....	42
" 8th "	Miss L. B. Clark	3rd "	1,320	187½	50	31	19	43.85	....	....	....	....	50
" 9th "	Miss E. M. Cawley	2nd "	1,320	187½	43	21	22	41.93	....	....	....	17	26
" 10th "	Miss L. C. Robertson	2nd "	1,200	187½	46	30	16	44.58	....	....	....	46	.....
" 11th "	Miss M. H. Williamson	2nd "	1,200	187½	43	17	26	40.22	...	....	....	43	.....
" 12th "	Miss V. M. Greenlay	2nd "	1,080	187½	51	31	20	37.77	....	....	51	....	.....
" 13th "	Miss E. I. Shier	3rd "	1,080	187½	42	22	20	33.27	17	....	25	....	.....
" 14th "	Miss W. M. Carruthers	3rd "	1,320	187½	45	24	21	37.40	....	45	....	....	.....
" 15th "	Miss E. M. Knowling	3rd "	1,080	187½	48	32	16	38.30	48	....	....	....	.....
" 16th "	Miss T. M. Godfrey	2nd "	1,200	187½	47	29	18	34.75	47	....	....	....	.....
Supervisor of Primary Grades	Miss A. T. G. Reid		1,680	....	.....	.....	.....	.....	....	....	....	....	.....
Manual Training Instructors.	A. S. Hamilton	Man. Train	2,520	....	...	.....	...	.....	....	....	....	....	.....
	J. A. Green	"	2,160	....	.....	.....	.....	.....	....	....	....	....	.....
	G. F. Clarke	"	1,800	....	.....	.....	.....	.....	....	....	....	....	.....
	G. Manson	"	1,800	....	.....	.....	.....	.....	....	....	....	....	.....
	C. E. Knight	"	1,680	....	.....	.....	.....	.....	....	....	....	....	.....
	M. Hale	"	1,560	...	.....	.....	.....	.....	....	....	....	....	.....
	D. Hazelwood	"	1,440	....	.....	...	.....	.....	....	....	....	....	.....
Domestic Science Instructors.	Mrs. M. A. Martin	Dom. Science	1,860	....	.....	....	.....	.....	....	....	....	....	.....
	Miss B. N. Allan	"	1,560	....	.....	.....	.....	.....	....	....	....	....	.....
	Miss H. B. Bruce	"	1,560	....	.....	.....	.....	.....	....	....	....	....	.....
	Miss M. J. Courteney	"	1,440	...	.....	.....	.....	.....	....	....	....	....	.....
	Miss F. McKittrick	"	1,320	...	.....	.....	.....	.....	..	....	....	....	.....
	Miss Z. B. Hutchinson	"	1,200	....	.....	.....	.....	.....	....	....	....	....	.....
Nurse	Miss E. M. Edwards		1,100	..	.....	.....	.....	.....	....	....	....	....	.....
					6470	3332	3138	.....	1225	496	664	1030	1821
Vancouver, West:													
Cypress Park	Miss L. B. Crewson	2nd Class	1,080	129	21	15	6	16.47	8	6	1	6	.....
Dundarave, 1st Div.	Miss E. L. Smith	1st "	1,500	187½	39	21	18	27.10	...	....	....	....	39
" 2nd "	Miss M. E. Morden	2nd "	900	188½	39	20	19	33.20	....	....	13	10	16
" 3rd "	Miss D. M. Jones	Academic	1,140	187½	38	23	15	25.63	24	8	6	....	.....
Hollyburn, 1st Division	G. E. Brealey	1st Class	2,000	189	40	17	23	34.20	....	....	....	....	....
" 2nd "	Miss R. D. Robinson	1st "	1,080	189	44	19	25	34.97	....	....	....	....	19
" 3rd "	Miss G. Lawson	2nd "	1,140	189	38	20	18	36.72	....	....	....	15	23
" 4th "	Miss M. T. Macfie	2nd "	1,080	189	47	26	21	36.77	....	16	19	12	.....
" 5th "	Miss I. Moore	2nd "	960	189	37	20	17	33.62	37	....	....	....	.....
					343	181	162	.....	69	30	39	43	97
Grand total, Rural Municipality Schools, 1920–21			.....	....	22822	11521	10801	.....	3949	1873	2253	3617	6074
" " " 1919–20			.....	....	19724	10028	9696	.....	3833	1547	1768	3228	5389

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																								
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
																				$ cts.	$ cts.
....	...	30	30	30	30	.....	.....	.....	...	30	....	....	30	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	38	....	...	...	...	..	..	.....	.....
....	...	36	36	36	36	.....	.....	.....	...	36	....	....	....	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	...	42	....	....	42	....	...	...	...	..	..	.....	.....
23	...	23	23	23	23	23	23	23	23	23	14	8	.....	....	...	...	...	..	..	.....	.....
45	...	45	45	45	45	45	45	45	45	45	18	27	.....	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	45	45	45	...	45	26	19	45	....	...	...	...	..	..	.....	.....
....	...	50	50	50	50	50	49	49	....	50	....	....	....	....	...	...	...	..	..	.....	.....
....	..	50	50	50	50	13	.....	.....	....	50	....	....	50	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	....	....	47	....	...	...	...	..	..	.....	.....
....	...	50	50	50	50	.....	.....	.....	....	50	....	....	50	....	...	...	...	..	..	.....	.....
....	...	51	51	51	51	51	.....	.....	....	51	....	....	....	....	...	...	...	..	..	.....	.....
35	...	35	35	35	35	35	35	35	35	35	14	21	.....	....	...	...	...	..	..	.....	.....
38	...	38	38	38	38	33	38	38	38	38	22	16	....	....	...	...	...	..	..	.....	.....
23	...	43	43	43	43	43	43	43	23	43	12	11	43	....	...	...	...	..	..	.....	.....
46	...	46	46	46	46	46	46	46	46	46	24	22	.....	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	42	42	42	....	42	20	22	.....	....	...	...	...	..	..	.....	.....
....	...	39	39	39	39	39	39	39	...	39	16	23	.....	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	42	42	42	....	42	19	19	.....	....	...	...	...	..	..	.....	.....
....	...	50	50	50	50	50	50	50	....	50	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	43	43	43	43	43	26	26	....	43	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	46	46	46	46	46	.....	.....	....	46	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	43	43	43	43	43	.....	.....	....	43	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	51	51	51	51	.....	.....	.....	....	51	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	45	45	45	45	.....	.....	.....	...	45	...	....	.....	....	...	...	...	..	..	.....	.....
....	...	48	48	48	48	.....	.....	.....	....	48	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	47	47	47	47	.....	.....	.....	....	47	....	...	47	....	...	...	...	..	..	.....	.....
....	...	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	....	...	...	...	..	..	.....	.....
1234	...	6470	6470	6470	6470	4085	3055	3055	1234	6470	998	1000	2315	....	...	...	...	..	..	.....	.....
....	...	21	21	21	21	6	.....	....	....	21	....	....	21	....	...	...	...	..	..	4,930 00	5,708 00
...	...	39	39	39	39	39	39	39	....	39	....	....	39	..	...	...	...	..	..	.....	.....
...	...	39	39	39	39	26	16	16	....	39	....	....	39	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	.....	.....	.....	....	38	....	....	.....	....	...	...	...	..	..	.....	.....
40	...	40	40	40	40	40	40	40	40	40	....	....	.....	....	...	...	...	..	..	.....	.....
25	...	44	44	44	44	44	44	44	25	44	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	38	38	38	38	38	23	23	....	38	....	....	38	...	...	...	...	..	..	.....	.....
....	...	47	47	47	47	12	.....	.....	....	47	...	....	47	....	...	...	...	..	..	.....	.....
....	...	37	37	37	37	.....	.....	.....	....	37	....	....	.....	....	...	...	...	..	..	.....	.....
65	...	343	343	343	343	205	162	162	65	343	....	....	184	...	...	...	...	..	..	.....	.....
4545	11	22322	22318	22311	22318	14236	10626	10619	4556	22322	3130	3245	10719	11	11	7	10	5	4	392,347 60	1,337,312 66
3920	39	19724	19719	19685	19697	12537	9314	9309	3959	19708	2653	2667	9053	39	39	33	30	15	16	355,875 35	1,045,632 18

RURAL AND ASSISTED SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Abbotsford, 1st Div. (Sup.)	G. A. Lundie	Academic	1,800	179½	20	8	12	15.31	....	....	....	....	....
" 2nd "	Miss N. M. Manning	3rd Class	1,500	178	41	16	25	30.89	...	...	...	...	....
" 3rd "	Miss L. C. Estey	3rd "	1,200	183	46	23	23	38.39	....	....	....	....	46
" 4th "	Miss E. H. MacQueen	Academic	1,200	184½	43	21	22	38.70	....	....	....	43	....
" 5th "	Miss D. A. Leary	3rd Class	1,200	185	46	29	17	36.09	19	13	14	...	....
Adelphi	Miss M. I. Grindrod	2nd "	960	186	11	5	6	6.80	5	...	1	4	....
Ainsworth	W. Troughton	1st "	1,020	186	14	5	9	8.64	4	1	1	2	3
Albert Canyon	Miss A. S. Johnson	3rd "	1,080	185	9	5	4	6.95	1	....	2	2	2
Albert Head	Miss E. Hart	1st "	900	186	16	10	6	7.05	2	1	....	4	5
Alert Bay	Miss A. M. York	2nd "	1,000	186½	38	22	16	23.86	15	6	4	5	4
Alex. Manson	Miss C. M. Couves	Temporary	1,140	166	14	4	10	11.54	6	....	4	....	4
Alexandria	Miss O. L. Bossi	3rd Class	1,140	168½	14	11	3	6.89	4	1	1	4	2
Aleza Lake	Miss A. M. Johnson	Temporary	1,140	72	16	8	8	11.76	10	2	...	1	3
Alice Arm	Miss C. S. Anderson	1st Class	1,140	160	18	8	10	16.11	3	....	2	6	1
Alice Siding	F. M. Steele	3rd "	1,020	162	23	18	5	11.16	4	....	5	1	7
Allenby	J. H. Price	1st "	1,140	151	46	27	19	32.79	9	3	8	6	12
Allen Grove	Miss A. M. Allan	3rd "	960	189	11	5	6	6.61	3	1	1	4	1
Anaconda	M. Beattie	2nd "	1,240	188	9	5	4	6.10	3	1	....	....	5
Anarchist Mountain	Miss G. M. Collier	Temporary	1,050	159	34	20	14	18.27	10	2	3	8	5
Anderson Creek	Miss M. A. Kosikar	3rd Class	960	184	17	8	9	11.33	3	1	8	2	1
Annable	Mrs. C. Mitchell	1st "	1,050	189	14	9	5	13.72	1	3	....	7	....
Appledale	J. G. Dell	2nd "	1,080	187	42	25	17	29.13	2	5	10	5	14
Argenta	J. H. Falkard	Temporary	1,020	190	12	1	11	10.20	2	1	2	7	....
Arrowhead	Miss M. H. Harwood	1st Class	1,200	178	29	13	16	26.46	3	....	4	5	8
Arrow Park, East	R. W. Ashworth	1st "	1,230	186	19	11	8	14.55	4	....	3	....	8
Arrow Park, West	G. E. Welbanks	2nd "	1,080	189	24	16	8	15.04	8	....	3	3	7
Ashcroft, 1st Division	Miss J. P. Gammie	1st "	1,080	190	22	14	8	16.99	....	....	....	....	13
" 2nd "	Miss E. M. Champion	3rd "	960	184	29	13	16	26.73	....	....	....	24	5
" 3rd "	Miss N. L. McKnight	Temporary	960	189	27	14	13	20.04	14	5	8	....	....
Ashton Creek	Miss M. Dunlop	1st Class	1,000	182	22	8	14	15.94	1	6	1	6	3
Aspen Grove	Miss M. E. Beckwith	2nd "	1,020	72	4	3	1	3.93	....	....	....	1	2
Athalmer	Miss V. J. Bell	2nd "	1,080	183	21	9	12	16.18	4	1	1	5	4
Atlin	Miss J. M. Taylor	3rd "	1,320	180½	9	4	5	4.21	4	....	....	3	....
Bainbridge	Miss F. Burrill	Interim	900	114½	13	5	8	9.77	2	2	2	3	4
Balfour	Miss A. M. Wall	1st Class	1,140	188	29	11	18	16.01	4	7	...	6	7
Balmoral	Miss A. Briand	1st "	980	177	18	10	8	11.42	6	...	2	3	4
Bamfield	Mrs. G. T. Longworth	3rd "	1,000	132	12	3	9	8.16	2	4	....	1	4
Barkerville	A. L. Wheeler	Academic	1,200	188	18	11	7	16.56	2	....	4	3	6
Barnston Island	Miss H. E. Johnston	1st Class	960	185	18	8	10	16.05	4	1	1	6	2
Barriere River	Miss A. E. Gerhart	1st "	1,020	170½	16	9	7	11.88	3	1	2	2	5
Barriere Valley	Miss M. Hancox	Temporary	1,020	150	12	7	5	10.45	8	...	2	....	....
Baynes Lake	Miss O. E. Topanila	2nd Class	1,310	190	25	12	13	24.23	6	2	3	2	5
Bear Creek	Miss P. W. Raymer	2nd "	960	184½	7	5	2	6.01	1	..	3	1	....
Beaton	Miss K. Binney	1st "	1,050	187	19	12	7	6.97	6	....	2	3	3
Beaver Creek	Miss A. G. Croll	3rd "	960	171½	14	4	10	13.34	1	2	3	1	2
Beaver Lake	Miss J. Creighton	3rd "	1,200	184½	13	7	6	8.92	2	2	1	3	2
Beaverley	Miss L. F. Cowdell	3rd "	1,080	192	13	8	5	8.97	1	....	2	3	6
Beaver Point	J. H. Monk	1st "	840	187	26	14	12	15.75	2	....	3	2	10
Begbie	Miss A. L. Donnelly	Temporary	1,080	180	11	6	5	9.01	2	1	2	4	2
Belford	Miss A. J. McKenzie	2nd Class	1,020	187	15	6	9	11.01	5	5	....	1	2
Bella Coola	Wm. A. M. Sykes	1st "	1,140	160½	22	7	15	16.44	2	5	...	2	9
Bella Coola, Lower	Wm. H. MacKay	1st "	1,100	173	22	10	12	17.97	....	8	....	7	5
Bellevue	Miss E. E. Schneider	2nd "	960	189	10	5	5	8.70	5	...	....	2	3
Bench	Miss G. N. Williams	1st "	960	184	19	12	7	13.08	6	2	2	....	8
Beresford	Miss R. W. Ward	Temporary	900	185	22	13	9	18.94	1	4	....	5	6
Bevan, 1st Division	G. Nutt	1st Class	1,140	185	19	12	7	13.81	....	....	....	....	13
" 2nd "	Miss D. J. Harris	3rd Class	960	185½	47	28	19	31.08	23	4	9	11	....
Big Bar	Mrs. E. P. Simms	1st "	1,140	186	16	7	9	7.30	6	1	2	2	3
Big Bar Mountain	J. Martin	1st "	1,200	145	17	8	9	12.36	1	....	1	2	4
Big Bar, Upper	Miss R. Watson	Temporary	1,140	188	13	4	9	9.20	1	2	1	5	3
Big Eddy	Miss R. Ross	2nd Class	1,140	183½	32	16	16	24.60	6	....	5	5	5
Birchbank	Miss W. C. Johnson	2nd "	1,000	120	8	3	5	5.90	3	1	....	....	2
Blaeberry	Miss J. J. Lingard	1st "	1,050	188	9	6	3	6.83	....	1	....	....	4
Blind Bay	Miss E. M. Reilly	3rd "	960	164½	18	8	10	11.25	2	3	3	2	3
Blubber Bay	Miss K. Kirk	1st "	1,020	186	15	11	4	12.03	3	1	..	1	6
Blueberry Creek	Miss H. M. Nelson	2nd "	1,050	188½	11	4	7	6.96	3	...	3	3	1
Blue Ridge	C. A. Shaw	Temporary	1,020	38	12	8	4	10.03	12	....	....	....	....
Blue River	Miss J. C. McGill	2nd Class	1,050	187	10	6	4	8.36	1	4	....	...	4
Bonaparte, North (closed)	Miss M. Jones	Temporary	1,020	....	....	....	....	....	....	....	....	....	....
Bonaparte Valley	Miss N. E. Larson	3rd Class	1,020	95	10	4	6	6.46	4	....	1	2	1
Boston Bar	Miss E. M. Law	Temporary	960	116½	17	12	5	11.46	5	....	2	2	5
Boswell	J. C. McCallum	3rd Class	1,020	186	19	12	7	15.68	4	....	2	3	3
Boundary Falls	A. G. McLaren	3rd "	1,020	188½	15	5	10	9.42	4	3	3	1	4
Bowen Island	Miss G. M. Downs	2nd "	960	188	22	11	11	14.05	2	2	1	4	9
Bowie	Miss M. E. McHattie	3rd "	1,080	187	21	7	14	20.95	5	....	2	6	7

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			
																					$ cts.	$ cts.
....	20	20	13	....	13	.....	13	.....	20	20	...	....	.....	13	13	9	13	4	..		568 40	5,611 21
41	...	41	41	41	41	41	41	41	41	41	....	....	.....	....	....	....	....	..	..		580 00	....
....	...	46	46	46	46	46	46	46	....	46	....	....	.....	....	....	....	....	..	..		580 00	....
....	...	43	43	43	43	43	.....	.....	...	43	....	....	.....	....	....	....	....	..	..		580 00	....
....	...	46	46	46	46	.....	.....	.....	.....	46	....	....	46	....	....	....	....	..	..		580 00	....
1	...	11	11	11	11	5	1	1	1	11	....	....	.....	....	....	...	....	..	..		918 00	68 15
3	...	14	14	14	14	8	6	6	3	14	....	....	.....	....	....	....	....	..	..		1,020 00	230 77
2	...	9	9	9	9	6	4	4	2	9	....	....	.....	....	....	....	....	..	..		1,062 00	....
4	...	16	16	16	16	13	9	9	4	16	....	....	16	....	....	....	....	..	..		1,364 00	748 34
4	...	38	38	38	38	13	8	8	4	38	....	....	.....	....	....	....	....	..	..		580 00	789 87
....	..	14	14	14	14	4	4	4	....	14	....	....	.....	....	....	....	....	..	..		1,043 20	....
2	...	14	14	14	14	8	4	4	2	14	....	....	14	....	....	....	....	..	..		1,140 00	....
....	...	16	16	16	16	4	3	3	....	16	....	....	.....	....	....	....	....	..	..		430 65	22 00
6	...	18	18	18	18	13	7	7	6	18	....	....	18	....	....	....	....	..	..		1,008 55	465 11
6	..	23	23	23	23	14	13	13	6	23	....	....	.....	....	....	....	....	..	..		1,020 00	195 30
8	...	46	46	46	46	26	20	20	8	46	..	...	.....	....	....	....	....	..	..		1,098 00	297 83
1	...	11	11	11	11	6	2	2	1	11	....	....	.....	....	....	....	....	..	..		960 00	120 16
....	...	9	9	9	9	5	5	5	....	9	....	....	.....	....	....	....	....	..	..		576 80	960 00
6	...	34	34	34	34	19	11	11	6	34	....	....	.....	....	....	....	....	..	..		1,000 00	499 41
2	...	17	17	17	17	5	3	3	2	17	....	....	.....	....	....	....	....	..	..		954 35	280 26
3	...	14	14	14	14	10	3	3	3	14	....	....	.....	....	....	....	....	..	..		1,050 00	....
6	...	42	42	42	42	25	20	20	6	42	....	....	.....	....	....	....	....	..	..		1,080 00	316 83
...	...	12	12	12	12	7	.....	.....	.....	12	....	....	12	....	....	....	....	..	..		1,020 00	185 42
9	...	29	29	29	29	22	17	17	9	29	....	....	29	....	....	....	....	..	..		580 00	1,166 39
4	...	19	19	19	19	12	12	12	4	19	....	...	19	....	....	....	....	..	..		580 00	969 64
3	...	24	24	24	24	13	10	10	3	24	....	....	24	....	....	....	....	..	..		1,080 00	580 07
9	...	22	22	22	22	22	22	22	9	22	....	....	.....	....	....	....	....	..	..		580 00	....
....	...	29	29	29	29	29	5	5	...	29	....	....	.....	....	....	....	....	..	..		580 00	2,347 41
....	...	27	27	27	27	.....	.....	.....	.....	27	....	....	.....	....	....	....	....	..	..		580 00	....
5	...	22	22	22	22	14	8	8	5	22	....	....	22	....	....	....	....	..	..		990 50	74 60
1	...	4	4	4	4	4	4	4	1	4	....	....	.....	....	....	....	....	..	..		408 00	....
6	...	21	21	21	21	15	10	10	6	21	....	....	.....	....	....	....	....	..	..		1,080 00	....
2	...	9	9	9	9	5	2	2	2	9	....	....	.....	....	....	....	....	..	..		1,320 00	....
....	...	13	13	13	13	7	4	4	....	13	....	....	.....	....	....	....	....	..	..		891 40	63 10
5	...	29	29	29	29	18	12	12	5	29	....	....	.....	....	....	....	....	..	..		1,140 00	298 35
3	...	18	18	18	18	10	7	7	3	18	....	....	18	....	....	....	....	..	..		933 35	45 84
1	...	12	12	12	12	6	5	5	1	12	....	....	.....	....	....	....	....	..	..		716 30	....
3	...	18	18	18	18	12	9	9	3	18	....	....	18	....	....	....	....	..	..		1,200 00	180 27
4	...	18	18	18	18	12	6	6	4	18	....	....	.....	....	....	....	....	..	..		960 00	116 79
3	...	16	16	16	16	10	8	8	3	16	....	....	.....	....	....	....	....	..	..		1,020 00	664 06
2	...	12	12	12	12	2	2	2	2	12	...	4	12	....	....	....	....	..	..		816 00	487 12
7	...	25	25	25	25	14	12	12	7	25	....	....	.....	....	....	....	....	..	..		580 00	1,305 00
2	...	7	7	7	7	3	2	2	2	7	....	....	7	....	....	....	....	..	..		918 00	....
5	...	19	19	19	19	11	8	8	5	19	....	....	.....	....	....	....	....	..	..		1,050 00	....
5	...	14	14	14	14	8	7	7	5	14	....	....	14	....	....	....	....	..	..		960 00	1,078 00
3	...	13	13	13	13	8	5	5	3	13	....	....	13	....	....	....	....	..	..		1,200 00	....
1	...	13	13	13	13	10	7	7	1	13	...	...	13	....	....	....	....	..	..		1,080 00	....
9	...	26	26	26	26	21	19	19	9	26	....	....	26	....	....	....	....	..	..		580 00	401 12
...	...	11	11	11	11	6	2	2	...	11	...	....	8	....	....	....	....	..	..		576 80	....
2	...	15	15	15	15	5	4	4	2	15	....	....	15	....	....	....	....	..	..		1,020 00	456 54
4	...	22	22	22	22	15	13	13	4	22	....	....	.....	....	....	....	....	..	..		1,140 00	65 25
2	...	22	22	22	22	14	7	7	2	22	....	....	22	....	....	....	....	..	..		1,112 00	231 23
....	...	10	10	10	10	5	3	3	....	10	....	....	.....	....	....	....	....	..	..		960 00	286 11
1	...	19	19	19	19	9	9	9	1	19	....	....	19	....	....	....	....	..	..		960 00	600 09
6	...	22	22	22	22	17	12	12	6	22	....	....	.....	....	....	....	....	..	..		580 00	539 25
6	...	19	19	19	19	19	19	19	6	19	....	....	19	....	....	....	....	..	..		1,130 50	1,257 95
....	...	47	47	47	47	11	.....	.....	.....	47	....	....	47	....	....	....	....	..	..		952 00	....
2	...	16	16	16	16	7	5	5	2	16	....	....	16	....	....	....	....	..	..		1,140 00	....
9	...	17	17	17	17	15	13	13	9	17	....	....	17	....	....	....	....	..	..		912 50	....
1	...	13	13	13	13	9	4	4	1	13	....	6	.....	....	....	....	....	..	..		1,140 00	....
11	...	32	32	32	32	21	16	16	11	32	....	....	.....	....	....	....	....	..	..		1,140 00	....
2	...	8	8	8	8	4	4	4	2	8	....	....	8	....	....	....	....	..	..		700 00	....
4	...	9	9	9	9	8	8	8	4	9	....	....	.....	....	....	....	....	..	..		1,050 00	....
5	...	18	18	18	18	10	8	8	5	18	....	....	.....	....	....	....	....	..	..		960 00	33 20
4	...	15	15	15	15	11	10	10	4	15	....	....	.....	....	....	....	....	..	..		998 75	49 10
1	...	11	11	11	11	5	2	2	1	11	....	....	11	....	....	....	....	..	..		1,050 00	56 00
....	...	12	12	12	12	.....	.....	.....	.....	12	....	....	.....	....	....	....	....	..	..		204 00	50 00
1	...	10	10	10	10	5	5	5	1	10	....	....	.....	....	....	....	....	..	..		1,044 50	168 75
...	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	.....	....	....	....	....	..	..		435 80	62 94
2	...	10	10	10	10	5	3	3	2	10	....	....	.....	....	....	....	....	..	..		587 70	....
3	...	17	17	17	17	10	8	8	3	17	....	....	.....	....	....	....	....	..	..		946 00	115 83
7	...	19	19	19	19	13	10	10	7	19	....	....	19	....	....	....	....	..	..		1,020 00	452 82
...	...	15	15	15	15	5	4	4	....	15	....	....	15	....	....	....	....	..	..		1,020 00	149 97
4	...	22	22	22	22	17	13	13	4	22	....	....	22	....	....	....	....	..	..		960 00	656 85
1	...	21	21	21	21	14	8	8	1	21	....	....	21	....	....	....	....	..	..		1,080 00	234 78

RURAL AND ASSISTED SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Bowser	Miss H. Cartwright	3rd Class	900	188	11	7	4	7.71	3	....	....	2	4
Box Lake	Mrs. I. Wyvill	1st "	1,080	154	28	14	14	17.88	7	1	4	4	6
Brackendale	Miss C. A. McKenzie	1st "	1,200	169½	27	13	14	19.80	8	....	4	9	4
Braeside	Miss M. Donovan	Temporary	1,080	149	14	8	6	8.71	2	....	2	4	5
Brechin, 1st Division	Miss C. Jaynes	2nd Class	1,260	189	24	12	12	18.95	....	....	....	....	13
" 2nd "	Miss C. V. Freeman	3rd "	1,080	189	31	17	14	30.42	....	....	....	23	8
" 3rd "	Miss M. Case	2nd "	960	189	34	17	17	27.82	17	7	10	....	....
Bridesville	Miss M. N. Blake	3rd "	1,050	182	15	7	8	11.14	3	2	1	2	3
Bridge Lake	Miss M. Deans	2nd "	1,050	108	9	3	6	7.45	2	....	....	....	4
Brilliant, 1st Division	Miss M. Matz	2nd "	1,260	182	47	32	15	30.00	21	7	4	10	5
" 2nd "	Miss M. W. Mitchell	Temporary	1,200	188	51	34	17	20.42	30	15	5	1	....
" 3rd "	Miss C. E. Mitchell	2nd Class	1,140	184	40	32	8	21.89	21	3	8	8	....
" 4th "	Miss B. A. Hurry	3rd "	1,140	183	55	38	17	20.82	21	11	4	19	....
Brisco	F. L. Perry	Temporary	1,080	188	16	12	4	9.65	....	2	1	4	4
Britannia Beach, 1st Div.	A. Smith	2nd Class	1,260	190	31	17	14	27.10	....	....	....	....	18
" 2nd "	Miss M. L. Derbyshire	3rd "	1,020	183½	37	17	20	32.87	11	8	6	12	....
Britannia Mine	R. C. Warden	2nd "	1,140	189	42	21	21	39.40	7	3	5	13	9
Brookmere	B. Goult	Temporary	1,020	185	16	9	7	12.47	3	2	4	3	2
Brown Creek	Miss E. I. Varcoe	2nd Class	1,080	182	21	15	6	18.36	3	3	3	3	8
Buckley Bay	P. M. Grant	Academic	1,100	168	12	4	8	7.31	2	....	....	3	4
Bulkley, North	Miss V. Monkhouse	2nd Class	1,080	170	11	6	5	4.65	2	2	....	2	4
Bulkley, South	J. A. Wilson	Temporary	1,080	182	13	10	3	10.52	1	....	2	2	6
Bull River Bridge, 1st D.	Miss G. Macarthur	"	1,200	181½	25	13	12	20.81	....	....	....	6	6
" 2nd "	Miss F. L. Rutledge	2nd Class	1,000	181	29	12	17	25.22	15	6	8	....	....
Burgoyne Bay	Miss J. Mouat	3rd "	780	187	31	17	14	23.14	5	....	6	1	9
Burns Lake, 1st Division	Miss N. Reid	Academic	1,260	188	21	14	7	13.46	....	....	....	4	7
" 2nd "	Miss S. McColm	2nd Class	1,080	188	37	22	15	22.24	7	6	13	11	....
Burtondale	Miss K. L. Kantz	1st "	990	186½	30	14	16	21.53	9	1	2	3	6
Cache Creek	Miss I. Parke	2nd "	840	172	12	4	8	10.11	3	1	2	2	3
Cahilty	Miss D. Munger	3rd "	960	183	10	4	6	5.66	2	....	2	1	3
Caithness	Mrs. S. Codd	Academic	1,020	176½	18	10	8	11.51	4	1	....	4	4
Campbell Creek	Miss C. Dixon	2nd Class	890	184	19	7	12	11.96	7	1	1	3	2
Campbell Range	Miss P. E. Webb	3rd "	1,000	184	9	6	3	7.16	3	....	2	1	2
Campbell River	Miss B. Anderson	3rd "	900	177	31	16	15	20.90	5	....	5	10	7
Camp Lister, 1st Division	Miss A. C. Anstead	3rd "	1,140	184	30	14	16	20.12	....	....	....	12	12
" 2nd "	Miss E. S. Holmes	3rd "	1,100	184	18	10	8	14.43	13	3	2	....	....
Canford	Miss E. Martin	2nd "	900	186½	14	9	5	12.45	5	....	1	5	2
Canim Lake	Miss G. M. Allison	3rd "	1,140	72	7	3	4	5.09	3	1	....	1	2
Canyon City, 1st Div.	Miss J. Corbett	2nd "	1,200	183	25	13	12	18.56	....	....	....	5	6
" 2nd "	Miss M. K. Knott	3rd "	1,000	187½	32	12	20	26.39	13	9	10	....	....
Cape Scott	Miss C. B. Christensen	3rd "	1,140	184	13	6	7	10.46	4	....	....	3	4
Carlin Siding	Miss A. E. Bowen	2nd "	980	187	22	13	9	14.44	4	3	5	3	3
Carrol's Landing	Miss B. Vanderburgh	Temporary	960	167	12	5	7	10.48	6	....	....	2	4
Carson	Miss O. B. Rooke	2nd Class	1,080	188	37	33	4	19.43	15	....	7	8	5
Cartier	Miss E. M. Lettice	2nd "	1,260	189	33	18	15	20.78	6	6	1	9	7
Cascade	Miss R. Johnston	2nd "	1,320	182½	35	16	19	25.71	3	1	6	5	13
Cassidy, 1st Division	Miss A. Robertson	2nd "	1,020	188	36	17	19	32.18	9	2	5	4	9
" 2nd "	Miss M. Jackson	3rd "	960	188	37	20	17	27.03	8	2	8	6	9
Castledale	Miss E. M. Stevenson	3rd "	1,050	181	11	6	5	6.06	1	1	....	5	2
Castlegar	Mrs. M. E. Lees	2nd "	1,200	185	40	15	25	30.67	2	2	2	9	11
Cawston, 1st Division	W. L. Lockhart	Academic	1,500	189	23	7	16	19.28	....	....	....	....	10
" 2nd "	Mrs. M. C. Fisher	2nd Class	1,200	189	26	12	14	20.97	8	3	....	15	....
Cedar, East	Miss E. A. Dunnett	2nd "	900	163	14	4	10	10.30	5	2	2	....	2
Cedar, North, 1st Div.	J. W. Harris	1st "	1,260	185	34	19	15	31.85	....	....	....	....	19
" 2nd "	Miss I. H. Peterson	2nd "	1,020	186	17	9	8	16.8	....	....	11	6	....
" 3rd "	Miss M. MacBeth	2nd "	960	115	41	30	11	40.53	29	12	....	....	....
Cedar, South	Miss E. H. Wallace	2nd "	1,020	188	28	19	9	26.11	3	3	4	2	8
Cedarvale	Mrs. H. Lewis	Temporary	1,050	187½	12	7	5	8.66	1	....	1	3	6
Champion Creek	Miss E. Hayes	1st Class	1,200	184	18	12	6	14.94	7	8	3	....	....
Chase, 1st Division	G. Bowyer	1st "	1,560	184	26	12	14	23.39	....	....	....	....	6
" 2nd "	Miss J. M. Campbell	3rd "	1,200	184	39	22	17	36.92	....	....	....	23	16
" 3rd "	Miss I. R. Whelan	2nd "	960	189	37	22	15	33.23	18	6	13	....	....
Chase Creek, Lower	Miss A. Michie	3rd "	960	188½	16	9	7	10.37	5	....	1	4	3
Chase River, 1st Division	Miss M. Mayovsky	2nd "	1,260	189	26	12	14	21.00	....	....	....	....	14
" 2nd "	Miss I. S. Johnston	2nd "	1,080	189	39	18	21	32.61	....	....	11	17	11
" 3rd "	Miss F. L. Weir	2nd "	960	186	35	17	18	30.28	9	26	....	....	....
Chaumox	Miss L. Washtok	Temporary	900	188	11	6	5	6.47	4	....	4	....	1
Cherry Creek Valley	Miss G. M. Hole	2nd Class	960	188	16	8	8	12.62	2	2	2	....	7
Chief Lake	Miss V. B. Hurst	3rd "	1,140	172	7	3	4	6.28	1	1	1	....	2
Chilco	Mrs. A. S. Maunders	Temporary	1,080	183	13	10	3	9.19	1	....	6	4	....
Chilcotin	G. S. Tingley	"	1,200	182	10	6	4	7.09	2	1	1	3	1
Chimney Creek	P. K. Cunningham	3rd Class	1,200	187½	9	4	5	7.57	....	1	2	1	3
Christian Valley	Miss A. M. Oakes	2nd "	1,080	189	12	9	3	10.18	1	1	3	..	1
Chu Chua	Mrs. M. Tame	1st "	1,000	168	19	9	10	12.40	5	2	....	5	6
Clayoquot	Mrs. E. Darlington	3rd "	1,020	188½	10	5	5	8.08	1	....	2	....	3

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

Number of Pupils in each Reader and in each Subject of Study.																			Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	$ cts.	$ cts.
2	11	11	11	11	8	6	6	2	11	....	....	11	....	....	....	....	....	....	900 00	120 87
6	28	28	28	28	16	12	12	6	28	....	....	....	....	....	....	....	....	....	1,080 00	94 50
2	27	27	27	27	15	6	6	2	27	....	....	....	....	....	....	....	....	....	551 00	1,252 94
1	14	14	14	14	10	6	6	1	14	....	....	....	....	....	....	....	....	....	864 00	99 60
11	24	24	24	24	24	24	24	11	24	....	....	....	....	....	....	....	....	....	1,260 00	.....
....	31	31	31	31	31	8	8	....	31	....	....	....	....	....	....	....	....	....	1,080 00	554 65
....	34	34	34	34	....	....	....	....	34	....	....	....	....	....	....	....	....	....	960 00	.....
4	15	15	15	15	9	7	7	4	15	....	....	15	....	....	....	....	....	....	1,014 45	66 20
3	9	9	9	9	7	7	7	3	9	....	....	....	....	....	....	....	....	....	588 80	279 20
....	47	47	47	47	15	5	5	....	47	....	....	47	....	....	....	....	....	....	1,260 00	.....
....	51	51	51	51	1	.....	.....	....	51	....	....	....	....	....	....	....	....	....	1,200 00	.....
....	40	40	40	40	8	.....	.....	....	....	....	....	....	....	....	....	....	....	....	1,140 00	.....
....	55	55	55	55	19	.....	.....	....	....	....	....	....	....	....	....	....	....	....	1,140 00	.....
5	16	16	16	16	13	9	9	5	16	....	....	....	....	....	....	....	....	....	1,080 00	.....
13	31	31	31	31	31	31	31	13	31	....	....	....	....	....	....	....	....	....	1,242 00	160 25
....	37	37	37	37	12	.....	.....	....	37	....	....	....	....	....	....	....	....	....	1,062 00	....
5	42	42	42	42	27	14	14	5	42	....	....	....	....	....	....	....	....	....	1,098 00	.....
2	16	16	16	16	7	4	4	2	16	....	....	....	....	....	....	....	....	....	1,020 00	174 96
1	21	21	21	21	12	9	9	1	21	....	....	....	....	....	....	....	....	....	1,038 00	131 60
3	12	12	12	12	10	7	7	3	12	....	....	....	....	....	....	....	....	....	978 40	.....
1	11	11	11	11	7	5	5	1	11	....	....	11	....	....	....	....	....	....	951 00	41 85
2	13	13	13	13	10	8	8	2	13	....	....	13	....	....	....	....	....	....	1,059 00	290 13
13	25	25	25	25	25	19	19	13	25	....	....	....	....	....	....	....	....	....	580 00	1,779 77
....	29	29	29	29	....	....	....	....	29	....	....	....	....	....	....	....	....	....	580 00	.....
10	31	31	31	31	20	19	19	10	31	....	....	31	....	....	....	....	....	....	580 00	252 49
10	21	21	21	21	21	17	17	10	21	....	....	21	....	....	....	....	....	....	1,260 00	1,229 99
....	37	37	37	37	11	.....	.....	....	.....	....	....	37	....	....	....	....	....	....	1,080 00	.....
9	30	30	30	30	18	15	15	9	30	....	....	30	....	....	....	....	....	....	580 00	724 60
1	12	12	12	12	6	4	4	1	12	....	....	12	....	....	....	....	....	....	534 90	344 58
2	10	10	10	10	6	5	5	2	10	....	....	....	....	....	....	....	....	....	937 15	61 19
5	18	18	18	18	13	9	9	5	18	....	....	18	....	....	....	....	....	....	1,020 00	.....
5	19	19	19	19	10	7	7	5	19	....	....	19	....	....	....	....	....	....	580 00	362 75
1	9	9	9	9	4	3	3	1	9	....	....	....	....	....	....	....	....	....	991 65	127 65
4	31	31	31	31	21	11	11	4	31	....	....	....	....	....	....	....	....	....	573 90	732 33
6	30	30	30	30	30	18	18	6	30	....	....	....	....	....	....	....	....	....	1,134 60	210 54
....	18	18	18	18	.....	.....	.....	.....	18	....	....	....	....	....	....	....	....	....	934 15	....
1	14	14	14	14	8	3	3	1	14	....	....	....	....	....	....	....	....	....	895 00	143 72
....	7	7	7	7	3	2	2	....	7	....	....	....	....	....	....	....	....	....	620 65	.....
14	25	25	25	25	25	20	20	14	25	....	....	25	....	....	....	....	....	....	580 00	1,627 22
....	32	32	32	32	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....	....	580 00	.....
2	13	13	13	13	9	6	6	2	13	....	....	....	....	....	....	....	....	....	1,134 30	139 32
4	22	22	22	22	10	7	7	4	22	....	....	....	....	....	....	....	....	....	971 85	63 30
....	12	12	12	12	6	4	4	...	12	....	....	12	....	....	....	....	....	....	954 65	266 00
2	37	37	37	37	15	7	7	2	.....	....	....	....	....	....	....	....	....	....	580 00	.....
4	33	33	33	33	20	11	11	4	33	....	....	....	....	....	....	....	....	....	1,260 00	124 05
7	35	35	35	35	25	20	20	7	25	....	....	....	....	....	....	....	....	....	580 00	.....
7	36	36	36	36	20	16	16	7	36	....	....	....	....	....	....	....	....	....	1,020 00	292 30
4	37	37	37	37	19	13	13	4	37	....	....	....	....	....	....	....	....	....	960 00	.....
2	11	11	11	11	9	4	4	2	11	....	....	....	....	....	....	....	....	....	1,044 15	147 15
14	40	40	40	40	34	25	25	14	40	....	....	....	....	....	....	....	....	....	1,173 35	237 20
13	23	23	23	23	23	23	23	13	23	....	....	....	....	....	....	....	....	....	580 00	3,456 06
....	26	26	26	26	15	.....	.....	.....	26	....	15	26	....	....	....	....	....	....	580 00	.....
3	14	14	14	14	5	5	5	3	14	....	....	....	....	....	....	....	....	....	805 25	101 55
15	34	34	34	34	34	34	34	15	34	....	....	34	....	....	....	....	....	....	1,176 00	1,251 10
....	17	17	17	17	6	.....	.....	.....	17	....	....	17	....	....	....	....	....	....	978 00	.....
....	41	41	41	41	.....	.....	.....	.....	41	....	....	41	....	....	....	....	....	....	576 00	.....
8	28	28	28	28	18	16	16	8	28	....	....	....	....	....	....	....	....	....	1,020 00	311 60
1	12	12	12	12	10	7	7	1	12	....	....	....	....	....	....	....	....	....	1,044 95	36 80
....	18	18	18	18	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....	....	1,200 00	.....
20	26	26	26	26	26	26	26	20	26	....	....	26	....	....	....	....	....	....	580 00	3,655 46
....	39	39	39	39	39	16	16	....	39	....	....	39	....	....	....	....	....	....	580 00	.....
....	37	37	37	37	.....	.....	.....	.....	37	....	....	....	....	....	....	....	....	....	580 00	.....
3	16	16	16	16	10	6	6	3	16	....	....	....	....	....	....	....	....	....	954 35	49 65
12	26	26	26	26	26	26	26	12	26	....	....	....	....	....	....	....	....	....	1,260 00	1,337 15
....	39	39	39	39	28	11	11	....	39	....	....	....	....	....	....	....	....	....	1,080 00	....
....	35	35	35	35	.....	.....	.....	.....	35	....	....	35	....	....	....	....	....	....	960 00	.....
2	11	11	11	11	3	3	3	2	11	....	....	....	....	....	....	....	....	....	900 00	136 65
3	16	16	16	16	10	10	10	3	16	....	....	8	....	....	....	....	....	....	960 00	924 30
2	7	7	7	7	4	4	4	2	7	....	....	6	....	....	....	....	....	....	1,108 35	....
2	13	13	13	13	6	2	2	2	13	....	....	....	....	....	....	....	....	....	1,080 00	.....
2	10	10	10	10	6	3	3	2	10	....	....	....	....	....	....	....	....	....	1,154 30	....
2	9	9	9	9	6	5	5	2	9	....	....	9	....	....	....	....	....	....	1,200 00	57 40
6	12	12	12	12	7	7	7	6	12	....	....	....	....	....	....	....	....	....	1,075 60	3 85
1	19	19	19	19	12	7	7	1	19	....	....	19	....	....	....	....	....	....	1,000 00	91 55
4	10	10	10	10	7	7	7	4	10	4	5	10	....	....	....	....	....	....	580 00	505 85

RURAL AND ASSISTED SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Clearwater	Miss C. L. Taylor	3rd Class	1,020	170	13	7	6	10.86	1	1	2	3	4
Clifton	Miss J. M. McBryde	3rd "	900	174	15	6	9	5.36	3	3	....	4	2
Clinton, 1st Division	Miss E. Hollingsworth	2nd "	1,020	184	17	9	8	16.87	....	....	....	....	5
" 2nd "	Miss J. Beamer	Temporary	900	94	30	19	11	29.44	18	7	5	....	....
Clo-oose	Miss L. Griffiths	"	1,000	174	10	3	7	5.79	5	....	....	....	2
Coal Creek, 1st Division	T. Prescott	1st Class	2,160	180	33	18	15	22.87	....	....	....	....	8
" 2nd "	Miss A. M. Manzer	3rd "	1,350	184½	28	16	12	23.61	....	....	....	16	12
" 3rd "	Miss C. E. Jakes	2nd "	1,200	185	31	14	17	23.29	18	6	7	....	....
Coalmont	Miss E. M. Johnston	1st "	1,020	185	24	5	19	17.51	6	4	4	5	2
Cobble Hill	Mrs. C. Kelly	Academic	1,020	188½	40	22	18	25.11	10	5	5	4	10
Cokato	Miss D. Dicken	1st Class	1,140	185	26	14	12	17.96	7	4	3	5	5
Collishaw	Miss J. Richards	3rd "	1,140	190	14	5	9	9.66	1	....	3	1	7
Coltern	Miss M. Keir	2nd "	1,080	189	11	7	4	10.06	2	4	1	1	2
Columbia Gardens	Miss M. E. Wadds	3rd "	1,080	183	15	5	10	11.28	....	....	....	6	2
Colwood	Mrs. I. Moore	Temporary	1,000	187	27	11	16	26.77	4	3	3	3	8
Comox, 1st Division	Miss N. M. Stuart	2nd Class	1,140	187	32	11	21	24.29	....	....	....	....	18
" 2nd "	Miss M. E. Graham	3rd "	960	185½	30	13	17	18.54	14	....	7	9	....
Concord	G. E. Duncan	Temporary	900	186	11	8	3	5.67	2	....	....	2	6
Cooper Creek	Miss M. M. Link	2nd Class	1,020	189	9	4	5	8.06	....	1	1	4	2
Copper Creek Station	Miss C. E. Short	2nd "	900	66	13	4	9	10.62	1	1	1	4	5
Copper Mountain, 1st D.	Miss A. Johnson	2nd "	1,140	183½	14	8	6	13.01	....	....	....	....	8
" 2nd "	Miss E. H. Larson	3rd "	960	180	20	12	8	19.20	6	4	4	6	....
Corbin, 1st Division	S. G. Timaeus	1st "	1,350	184	30	14	16	28.12	10	2	2	4	11
" 2nd "	Miss M. E. Kania	3rd "	1,300	113½	22	14	8	21.77	20	2	....	....	....
Cortes Island	J. A. Danahy	Temporary	1,020	179	16	7	9	11.75	4	....	3	3	4
Cowichan, 1st Division	Miss E. Biggar	Academic	1,140	186½	24	7	17	15.34	....	....	....	....	8
" 2nd "	Miss G. M. Scott	1st Class	960	186½	34	22	12	17.40	15	....	8	11	....
Cowichan Lake	Miss B. Rumming	2nd "	960	186	14	7	7	12.14	1	1	....	4	4
Craigellachie	Miss R. Lindmark	3rd "	960	181	15	7	8	10.66	3	2	4	....	4
Cranberry Marsh	Miss H. Draper	1st "	960	186	10	4	6	8.32	....	....	....	....	4
Crawford Bay	Miss G. Willoughby	2nd "	1,200	187	38	18	20	24.88	3	8	4	7	6
Crawford Creek	Miss B. Monteith	2nd "	1,000	188	16	4	12	13 99	....	2	1	5	....
Crescent Valley	Miss V. Moore	2nd "	1,080	188	30	13	17	27.02	6	....	3	4	6
Creston, 1st Div.	G. P. Smith	Academic	1,595	184	43	27	16	23.28	....	....	....	....	....
" 2nd "	F. B. Pearce	1st Class	1,320	182	41	21	20	38.01	....	....	....	....	41
" 3rd "	Miss F. A. Irvine	Academic	1,120	187	51	25	26	40.90	....	....	8	43	....
" 4th "	Miss E. G. McLeod	2nd Class	1,200	181	51	19	32	39.75	24	17	10	....	....
Criss Creek	Miss H. Keir	Temporary	960	158	13	9	4	7.72	....	3	2	....	4
Crowsnest	Miss M. M. Pearson	"	1,080	175½	12	7	5	7.91	3	1	2	3	3
Cultus Lake	H. K. Leavens	3rd Class	1,020	185	10	3	7	7.88	1	....	1	5	3
Curzon	Miss L. M. Manson	3rd "	1,020	187	12	7	5	7.07	3	....	....	3	1
Dawson Creek	J. MacDiarmid	Academic	1,320	188	32	16	16	16.23	9	....	7	7	3
Decker Lake	Miss A. Donaldson	3rd Class	1,050	185	12	8	4	9.77	2	....	4	2	....
Deep Cove	Mrs. F. Breadner	1st "	1,000	186½	23	13	10	17.80	1	1	3	4	6
Deep Creek	Miss K. Piggott	2nd "	1,020	181	17	10	7	11.85	2	....	5	3	3
Deer Park	Miss V. Irving	2nd "	1,080	184	19	11	8	10.24	2	....	4	2	6
Demars, West	Miss I. Brown	2nd "	1,080	185	10	4	6	9.37	1	....	..	2	2
Denman Island, 1st Div.	Miss E. Marwick	Academic	1,200	178	28	18	10	23.56	....	....	....	....	13
" 2nd "	Miss C. Ballson	2nd Class	1,080	178½	30	17	13	19.69	14	....	....	16	....
Departure Bay	Miss M. Planta	2nd "	960	189	12	8	4	7.88	3	1	2	3	2
Diamond Crossing, 1st D.	Miss M. Cunningham	1st "	1,140	188½	29	12	17	22.94	....	....	....	....	16
" 2nd "	Miss E. J. Nairn	2nd "	960	188½	24	10	14	19.51	11	....	6	7	....
Discovery	Miss M. B. Henderson	Academic	1,320	176	21	9	12	12.98	3	....	1	4	9
Divide	Miss M. M. Buss	3rd Class	900	117	16	5	11	9.67	3	3	....	2	1
Dome Creek	J. Long	Temporary	1,140	190	20	11	9	15.97	6	7	3	2	2
Doriston	Miss M. Coverdale	"	960	185	9	3	6	7.60	1	1	..	....	4
Dragon Lake	A. S. Ellis	"	1,140	118	11	7	4	6.53	....	....	4	....	....
Driftwood Creek	Miss G. E. MacDonald	"	1,080	142	13	4	9	9.26	7	1	....	2	3
Duck Range	Miss M. Mude	3rd Class	960	178	23	10	13	17.75	4	....	4	3	7
Duhamel	R. Thompson	1st "	1,000	175	26	12	14	17.73	2	....	4	6	6
Dunster	L. W. Heaslip	Academic	1,080	68	7	4	3	5.94	2	2	1	1	1
Eagle Valley	Miss A. Blackberg	2nd Class	1,020	180	16	8	8	10.29	2	4	1	4	4
Edgewood	Miss F. Forslund	2nd "	1,080	170	25	13	12	14.88	2	1	1	7	5
Eholt	Mrs. Doepking	Temporary	1,020	149½	10	6	4	8.30	1	....	2	1	2
Elk Bridge	P. Murray	1st Class	1,140	188	25	14	11	16.02	4	....	6	5	8
Elko	Miss N. Irving	2nd "	1,000	181	34	14	20	28.35	5	5	1	10	9
Ellesby	A. D. Corker	Temporary	1,080	182	9	3	6	7.15	....	2	....	1	2
Ellison	Miss D. Swencisky	Academic	1,600	184	23	11	12	19.02	2	3	....	4	7
Elphinstone Bay	C. McDougall	2nd Class	960	190	24	15	9	15.00	3	....	....	8	8
Endako	Miss M. P. Stein	2nd "	1,080	185	15	10	5	10.33	2	....	1	7	2
Enderby, North	Miss E. R. Cary	2nd "	1,200	184	30	16	14	22.95	12	1	1	3	11
Engen	Miss E. Lawerison	3rd "	1,080	157	15	7	8	7.38	4	1	2	1	5
Erickson	J. E. Jay	Academic	1,200	187	44	22	22	34.45	2	5	10	5	8
Erie	Miss E. A. McKinnon	3rd Class	1,020	183½	10	5	5	7.43	2	1	1	1	1
Errington, 1st Division	F. W. Moore	Academic	1,140	188	25	12	13	23.15	....	....	....	....	9

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

Number of Pupils in each Reader and in each Subject of Study.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		
																				$ cts.	$ cts.
2	..	13	13	13	13	9	6	6	2	13	....	....	.....	....	...	...	...	..	..	1,015 15	114 07
3	...	15	15	15	15	9	5	5	3	15	....	....	.....	....	...	...	...	..	..	891 45	489 18
12	...	17	17	17	17	17	17	17	12	17	....	....	.....	....	...	...	...	..	..	580 00	603 60
....	...	30	30	30	30	.....	.....	.....	....	30	....	....	.....	....	...	...	...	..	..	249 40	.....
3	...	10	10	10	10	5	5	5	3	10	....	....	10	....	...	...	...	..	..	922 20	3 75
25	...	33	33	33	33	33	33	33	25	33	....	....	33	....	...	...	...	..	..	580 00	5,770 70
....	...	28	28	28	28	28	12	12	...	28	....	....	.....	....	...	...	...	..	..	580 00	.....
....	...	31	31	31	31	.....	.....	.....	....	31	....	....	31	....	...	...	...	..	..	580 00	.....
3	...	24	24	24	24	10	5	5	3	24	....	..	....	....	...	...	...	..	..	1,020 00	376 85
6	...	40	40	40	40	20	16	16	6	40	....	....	.....	....	...	...	...	..	..	978 00	445 20
2	...	26	26	26	26	12	7	7	2	26	....	....	.....	....	...	...	...	..	..	1,140 00	611 89
2	...	14	14	14	14	10	9	9	2	14	....	6	.....	....	...	...	...	..	..	1,140 00	.....
1	...	11	11	11	11	4	3	3	1	11	....	....	11	....	...	...	...	..	..	1,080 00	.....
7	...	15	15	15	15	15	9	9	7	15	....	....	.....	....	...	...	...	..	..	1,050 00	323 80
6	...	27	27	27	27	17	14	14	6	27	....	16	27	....	...	...	...	..	..	580 00	964 28
14	...	32	32	32	32	32	32	32	14	32	....	....	.....	....	...	...	...	..	..	1,133 65	.....
....	...	30	30	30	30	9	.....	.....	....	30	....	....	.....	....	...	...	...	..	..	954 65	.....
1	...	11	11	11	11	9	7	7	1	11	....	....	.....	....	...	...	...	..	.	900 00	.....
1	...	9	9	9	9	7	3	3	1	9	....	....	9	....	...	...	...	..	..	1,020 00	.....
1	...	13	13	13	13	10	6	6	1	13	....	....	.....	....	...	...	...	..	..	333 00	29 55
6	...	14	14	14	14	14	14	14	6	14	....	....	14	....	...	...	...	..	..	1,098 00	.....
....	...	20	20	20	20	6	.....	.....	....	20	....	....	14	....	...	...	...	..	..	960 00	.....
1	...	30	30	30	30	16	12	12	1	30	....	....	.....	....	...	...	...	..	.	580 00	3,217 31
....	...	22	22	22	22	.....	.....	.....	....	22	....	....	22	....	...	...	...	..	..	348 00	.....
2	...	16	16	16	16	9	6	6	2	16	....	....	.....	....	...	...	...	..	..	1,020 00	47 48
16	...	24	24	24	24	24	24	24	16	24	....	10	.....	....	...	...	...	..	..	1,140 00	961 32
....	...	34	34	34	34	11	.....	.....	....	34	....	....	.....	....	...	...	...	..	..	960 00	.....
4	...	14	14	14	14	12	8	8	4	14	....	....	.....	....	...	...	...	..	..	960 00	421 85
2	...	15	15	15	15	6	6	6	2	15	....	....	.....	....	...	...	...	..	..	960 00	130 39
6	...	10	10	10	10	10	10	10	6	10	....	....	.....	....	...	...	...	..	..	960 00	18 30
10	...	38	38	38	38	23	16	16	10	38	....	....	.....	....	...	...	...	..	..	580 00	869 31
8	...	16	16	16	16	13	8	8	8	16	....	....	16	....	...	...	...	..	..	994 45	294 10
11	...	30	30	30	30	21	17	17	11	30	....	....	.....	....	...	...	...	..	..	576 60	.....
43	...	43	43	43	43	43	43	43	43	43	...	....	.....	....	...	...	...	..	..	.....	7,686 72
....	...	41	41	41	41	41	41	41	....	.....	....	....	.....	....	...	...	...	..	..	.....	.....
....	...	51	51	51	51	43	.....	.....	....	51	....	....	.....	....	...	...	...	..	..	2,900 00	.....
....	...	51	51	51	51	.....	.....	.....	....	51	....	....	51	....	...	...	...	..	..	.....	.....
4	...	13	13	13	13	8	8	8	4	13	....	....	.....	....	...	...	...	..	..	817 35	75 23
....	...	12	12	12	12	6	3	3	....	12	....	....	12	....	...	...	...	..	..	979 70	94 25
....	...	10	10	10	10	8	3	3	...	10	...	....	.....	....	...	...	...	..	..	1,020 00	.....
5	...	12	12	12	12	9	6	6	5	12	....	....	.....	....	...	...	...	..	..	1,020 00	163 45
6	...	32	32	32	32	16	9	9	6	32	....	....	.....	....	...	...	...	..	..	1,320 00	553 21
4	...	12	12	12	12	6	4	4	4	12	....	....	.....	....	...	...	...	..	..	1,029 00	328 89
8	...	23	23	23	23	18	14	14	8	23	....	....	.....	....	...	...	...	..	..	580 00	897 19
4	...	17	17	17	17	10	7	7	4	17	....	....	17	....	...	...	...	..	..	1,020 00	432 90
5	...	19	19	19	19	13	11	11	5	19	...	....	19	....	...	...	...	..	..	1,080 00	368 40
5	...	10	10	10	10	9	7	7	5	.....	....	....	.....	....	...	...	...	..	..	1,080 00	96 54
15	...	28	28	28	28	28	28	28	15	28	....	....	.....	....	...	...	...	..	..	575 15	1,009 51
....	...	30	30	30	30	16	.....	.....	....	30	....	....	30	....	...	...	...	..	..	575 15	.....
1	...	12	12	12	12	6	3	3	1	12	....	....	.....	....	...	...	...	..	..	960 00	.....
13	...	29	29	29	29	29	29	29	13	29	7	17	.....	....	...	...	...	..	..	1,140 00	356 87
....	...	24	24	24	24	7	.....	.....	....	24	....	....	24	....	...	...	...	..	..	960 00	.....
4	...	21	21	21	21	17	13	13	4	.....	....	....	.....	....	...	...	...	..	..	1,320 00	.....
7	...	16	16	16	16	10	8	8	7	16	....	....	.....	....	...	...	...	..	..	540 00	.....
....	...	20	20	20	20	4	2	2	....	20	....	....	.....	....	...	...	...	..	..	1,140 00	.....
3	...	9	9	9	9	7	7	7	3	9	....	....	9	....	...	...	...	..	..	949 90	10 12
7	...	11	11	11	11	7	7	7	7	11	....	....	....	....	...	...	...	..	..	732 85	90 89
....	...	13	13	13	13	5	3	3	....	.....	....	....	.....	....	...	...	...	..	..	814 90	33 55
5	...	23	23	23	23	15	12	12	5	23	....	....	23	....	...	...	...	..	..	580 00	464 52
8	...	26	26	26	26	20	14	14	8	26	....	....	.....	....	...	...	...	..	..	975 00	384 93
....	...	7	7	7	7	2	1	1	....	7	....	....	.....	....	...	...	...	..	.	515 85	.....
1	...	16	16	16	16	9	5	5	1	16	....	....	.....	....	...	...	...	..	..	1,020 00	234 65
9	...	25	25	25	25	21	14	14	9	25	....	....	.....	....	...	...	...	..	..	1,080 00	.....
4	...	10	10	10	10	7	6	6	4	.....	....	....	.....	....	...	...	...	..	..	918 00	196 50
2	...	25	25	25	25	15	10	10	2	25	....	....	.....	....	...	...	...	..	..	1,140 00	.....
4	...	34	34	34	34	23	13	13	4	34	...	....	.....	....	...	...	...	..	..	580 00	.....
4	...	9	9	9	9	7	6	6	4	.....	....	....	.....	....	...	...	...	..	..	1,048 25	96 80
7	...	23	23	23	23	18	14	14	7	23	....	....	.....	....	...	...	...	..	..	577 25	2,072 69
5	...	24	24	24	24	21	13	13	5	.....	....	....	24	....	...	...	...	..	..	960 00	908 52
3	...	15	15	15	15	12	5	5	3	15	....	....	.....	....	...	...	...	..	..	1,080 00	140 97
2	...	30	30	30	30	16	13	13	2	30	....	....	30	....	...	...	...	..	..	580 00	836 21
2	...	15	15	15	15	8	7	7	2	15	....	....	.....	....	...	...	...	..	..	1,044 00	.....
14	...	44	44	44	44	27	22	22	14	44	....	.	.....	....	...	...	...	..	..	580 00	1,009 68
4	...	10	10	10	10	6	5	5	4	10	....	....	.....	....	...	...	...	..	..	1,006 00	108 75
16	...	25	25	25	25	25	25	25	16	25	...	....	.....	....	...	...	...	..	..	894 95	319 55

RURAL AND ASSISTED SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Errington, 2nd Division	Mrs. M. Despard	3rd Class	960	169	25	16	9	19.98	3	3	4	15	....
Essington	R. G. Gordon	Academic	1,140	171	22	16	6	12.42	6	....	....	7	3
Essondale	Miss G. Berry	Temporary	960	187	13	6	7	11.39	2	....	2	2	4
Extension, 1st Division	Miss C. Mazzoline	2nd Class	1,260	188	23	6	17	21.42	....	....	....	....	....
" 2nd "	Miss E. McKinnell	3rd "	1,080	188	28	19	9	24.87	....	....	....	....	28
" 3rd "	Miss H. E. Thomson	2nd "	960	188	35	17	18	27.60	14	....	7	14	....
Fairview	Miss M. B. Mills	1st "	1,050	187	12	8	4	8.85	1	1	1	2	2
Falkland	Miss G. Lomas	3rd "	1,020	186	21	9	12	16.69	1	1	5	5	7
False Bay	Mrs. K. Grant	2nd "	960	189	17	8	9	11.28	3	2	....	4	5
Fanny Bay	W. F. Bewell	2nd "	960	188	13	9	4	11.02	....	....	1	2	2
Fauquier	E. W. Tanner	1st "	960	188	9	6	3	8.06	1	....	....	2	3
Ferguson	Mrs. M. G. Vars	2nd "	1,020	187	6	3	3	5.60	....	....	1	....	2
Field	Miss M. Malcolm	3rd "	1,250	186½	38	21	17	32.63	8	3	6	5	10
Fife	Miss H. R. Wilkinson	1st "	1,080	179½	33	18	15	21.64	13	....	3	7	6
Firvale	Mrs. A. L. Bowett	Temporary	1,050	164½	17	9	8	8.62	2	3	....	5	3
Fir Valley	Miss H. R. Walker	"	1,020	149½	7	3	4	6.20	....	....	2	2	1
Fire Valley	T. G. Cole	2nd Class	1,080	175½	24	10	14	16.51	7	2	....	3	9
Fish Lake	Miss E. F. Payne	3rd "	980	167	15	6	9	14.03	2	3	1	4	3
Flagstone	Miss M. L. Murray	3rd "	1,140	156	26	16	10	18.78	6	....	4	1	11
Floral Creek	Miss M. Jones	Temporary	1,020	67	9	4	5	8.50	2	....	2	4	....
Florence Mine	Miss J. V. Fisher	"	1,080	159	15	7	8	12.61	4	....	....	2	6
Forest Grove	Miss V. E. Dill	3rd Class	1,140	167	14	10	4	7.71	3	3	1	....	4
Fort Fraser	Miss D. Fraser	2nd "	1,140	187	26	12	14	17.33	8	4	3	3	4
Fort George, 1st Division	W. L. Foley	2nd "	1,440	188	32	18	14	25.50	....	....	....	7	14
" 2nd "	Miss E. J. Gibson	2nd "	1,200	188	41	21	20	35.69	23	....	8	10	....
Fort George, South, 1st D	Miss S. E. McLaughlin	2nd "	1,380	183	31	17	14	24.12	....	....	....	....	17
" " 2nd "	Miss A. M. Mutrie	2nd "	1,140	184	34	16	18	24.67	16	6	4	8	....
Fort Steele, 1st Division	Miss E. A. Daniel	Temporary	1,200	188	26	14	12	24.75	....	....	....	8	9
" 2nd "	Miss D. Murgatroyd	"	900	188	24	9	15	19.58	6	5	5	8	....
Foster's Bar	Miss W. E. Larson	3rd Class	1,020	179½	11	6	5	8.78	2	....	1	1	4
Francois Lake	Miss V. I. Monkhouse	3rd "	1,140	193	21	13	8	9.32	4	5	....	3	3
Francois Lake, South	Miss M. L. Pollock	2nd "	1,140	179	15	5	10	11.57	9	1	....	2	....
French Creek	Miss H. M. Conacher	2nd "	960	187	34	15	19	20.86	6	2	8	7	2
Fruitlands, 1st Division	R. A. Racklyeft	Temporary	1,200	177½	23	13	10	22.12	....	....	....	....	12
" 2nd "	Mrs. K. Racklyeft	"	900	166½	34	22	12	33.36	....	....	16	18	....
" 3rd "	Mrs. C. M. Venables	3rd Class	900	32	33	25	8	28.51	25	8	....	....	....
Fruitvale, 1st Division	Miss M. E. MacKenzie	Academic	1,200	189	34	15	19	28.12	....	....	....	7	17
" 2nd "	Miss M. B. G. Sharpe	2nd Class	1,100	188½	36	23	13	28.15	8	11	11	6	....
Gabriola, East	Mrs. J. A. Mill	1st "	900	150½	16	4	12	12.09	3	1	6	2	2
Gabriola, North	Mrs. L. M. Sherk	Temporary	900	180	16	7	9	12.76	3	1	....	5	4
Gabriola, South	W. D. Knott	2nd Class	900	176	16	7	9	9.77	2	....	3	7	..
Galena Bay	Miss H. G. Switzer	Temporary	1,080	177	15	7	8	10.93	2	1	7	....	2
Galiano	F. W. Hicks	1st Class	900	187	15	8	7	10.57	....	4	2	3	4
Galiano, North	H. H. Taylor	3rd "	900	182	12	6	6	10.70	....	2	1	1	6
Ganges Harbour	Miss I. M. Burnes	2nd "	840	182	38	18	20	25.64	8	4	5	3	9
Gerrard	Miss R. Olson	Temporary	960	190	6	4	2	5.34	1	2	....	2	....
Gill	Miss V. E. Rogers	2nd Class	1,020	188	32	19	13	20.53	4	6	7	2	4
Gillis Bay	Miss M. F. Hughes	2nd "	960	188	16	8	8	13.46	2	....	2	4	7
Gilpin	Miss L. C. Day	3rd "	960	174	9	2	7	8.22	2	....	....	1	5
Giscome	Miss M. Smith	Academic	1,140	151	15	6	9	8.79	1	....	1	5	3
Glacier	Miss L. E. Beech	2nd Class	1,080	184½	19	10	9	15.59	2	....	4	5	6
Glade, 1st Division	Miss M. Greenwood	3rd "	1,260	189	27	16	11	11.49	12	1	5	9	....
" 2nd "	Miss P. C. Bekker	2nd "	1,160	186	28	23	5	12.67	7	1	10	10	....
Gladwin	Miss E. Edwards	2nd "	900	179½	10	3	7	9.98	7	....	1	....	2
Glenbank, 1st Division	Miss B. W. Cox	1st "	1,100	188	16	8	8	13.55	....	....	....	....	7
" 2nd "	Miss M. F. Keele	3rd "	1,100	186	30	15	15	24.51	7	2	4	7	10
Glencoe	Mrs. O. S. Nye	Temporary	1,140	185	16	3	13	14.33	3	3	3	2	5
Glenemma	Miss M. L. Homuth	2nd Class	780	188	8	4	4	7.17	1	....	....	3	2
Glenora	Miss L. M. Rolfe	2nd "	960	187	17	9	8	13.82	1	2	4	2	4
Glenrosa	Miss A. L. Cousins	3rd "	960	187	13	2	11	11.10	....	4	2	....	4
Glentanna	Miss W. Lennox	Temporary	1,080	95½	8	4	4	7.26	3	....	1	1	3
Golden, 1st Division	D. R. Fraser	Academic	1,800	180	33	12	21	25.43	....	....	....	....	....
" 2nd "	Miss E. S. Scales	2nd Class	1,200	181	35	26	9	28.65	....	....	....	....	35
" 3rd "	Miss N. K. Keatley	1st "	1,100	186	39	16	23	32.07	....	....	11	28	....
" 4th "	Miss B. I. Yates	2nd "	1,000	186	52	29	23	38.75	41	11	....	....	....
Goldstream	Miss L. Webster	1st "	840	188	22	11	11	17.03	5	....	3	6	4
Granby Bay, 1st D. (Sup.)	W. H. Lambert	Academic	3,000	181	13	5	8	11.16	....	....	....	....	....
" 2nd "	D. W. Dow	1st Class	2,000	170	28	15	13	23.78	....	....	....	....	....
" 3rd "	Miss C. J. Milligan	2nd "	1,800	169	36	21	15	26.13	....	....	....	....	36
" 4th "	Miss D. H. Hartness	Academic	1,800	184	22	11	11	17.23	6	4	4	8	....
" 5th "	Miss M. D. McColl	3rd Class	1,440	171	39	20	19	31.73	....	....	....	20	19
" 6th "	Miss E. A. Olson	3rd "	1,440	168	42	24	18	28.52	28	5	9	....	....
Grande Prairie	Miss V. M. Pettman	2nd "	900	172	20	15	5	12.90	4	2	4	4	4
Grandview Bench	Miss D. Patchett	3rd "	960	182½	9	5	4	8.43	2	....	1	4	1
Granite Bay	Miss M. S. Thompson	Academic	960	189	10	6	4	9.06	1	....	....	2	4

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	$ cts.	$ cts.
....	...	25	25	25	25	15	....	.....	....	25	....	....	.....	....	....	....	....	..	..	930 00	.....
6	...	22	22	22	22	16	9	9	6	....	....	....	.....	....	....	....	....	..	..	560 65	786 07
3	...	13	13	13	13	9	7	7	3	13	....	....	.....	....	....	....	....	..	..	960 00	.....
23	...	23	23	23	23	23	23	23	23	23	....	....	.	....	....	..	....	..	..	1,260 00	427 40
....	...	28	28	28	28	28	28	....	....	28	....	....	28	....	....	....	....	..	..	1,080 00	.....
....	...	35	35	35	35	14	.....	.....	....	35	....	....	35	....	....	....	....	..	..	960 00	.....
5	..	12	12	12	12	9	7	7	5	12	....	....	12	....	....	....	....	..	..	1,050 00	316 48
2	...	21	21	21	21	14	9	9	2	21	....	....	.....	....	....	....	....	..	..	1,020 00	369 00
3	...	17	17	17	17	12	8	8	3	17	....	..	17	....	....	....	....	..	..	960 00	40 75
8	...	13	13	13	13	12	10	10	8	13	....	....	.....	....	....	....	....	..	..	960 00	141 10
3	...	9	9	9	9	8	6	6	3	9	....	....	.....	....	....	....	....	..	..	960 00	148 33
3	...	6	6	6	6	5	5	5	3	6	....	3	.....	....	....	....	....	..	..	1,020 00	.....
6	...	38	38	38	38	21	16	16	6	38	....	....	.....	....	....	....	....	..	..	580 00	1,187 86
4	...	33	33	33	33	17	10	10	4	33	....	....	16	....	....	....	....	..	..	1,080 00	155 66
4	..	17	17	17	17	12	7	7	4	.....	....	....	.....	....	....	....	....	..	..	851 05	.....
2	...	7	7	7	7	5	3	3	2	7	....	....	.....	....	....	....	....	..	..	850 00	.....
3	...	24	24	24	24	15	12	12	3	24	....	....	24	....	....	....	....	..	..	1,080 00	540 28
2	...	15	15	15	15	9	5	5	2	15	....	....	15	....	....	....	....	..	..	980 00	54 10
4	...	26	26	26	26	16	15	15	4	26	....	....	.....	....	....	....	....	..	..	1,064 00	327 18
1	...	9	9	9	9	5	1	1	1	9	....	4	9	....	....	....	....	..	..	357 00	.....
3	...	15	15	15	15	11	9	9	3	15	....	....	.....	....	....	....	....	..	..	1,080 00	.....
3	...	14	14	14	14	7	7	7	3	14	....	....	14	....	....	....	....	..	..	912 00	38 08
4	...	26	26	26	26	11	8	8	4	26	....	....	.....	....	....	....	....	..	..	1,140 00	251 55
11	...	32	32	32	32	32	25	25	11	32	....	....	.....	....	....	....	....	..	..	1,440 00	.....
....	...	41	41	41	41	10	.....	.....	....	41	....	....	.....	....	....	....	....	..	..	1,200 00	.....
14	...	31	31	31	31	31	31	31	14	31	....	....	31	....	....	....	....	..	..	1,380 00	.....
....	...	34	34	34	34	8	.....	.....	....	34	....	....	.....	....	....	....	....	..	..	1,140 00	.....
9	...	26	26	26	26	26	18	18	9	26	....	....	.....	....	....	....	....	..	..	580 00	1,314 80
....	...	24	24	24	24	8	.....	.....	....	24	....	....	.....	....	....	....	....	..	..	580 00	
3	...	11	11	11	11	8	7	7	3	11	....	....	.....	....	....	....	....	..	..	995 70	.....
6	...	21	21	21	21	12	9	9	6	21	....	....	.....	....	....	....	....	..	..	1,051 35	205 41
3	...	15	15	15	15	5	3	3	3	15	....	....	15	....	....	....	....	..	..	1,076 65	.....
9	...	34	34	34	34	18	11	11	9	34	....	....	34	....	....	....	....	..	..	960 00	.....
11	...	23	23	23	23	23	23	23	11	23	....	....	23	....	....	....	....	..	..	580 00	.....
....	..	34	34	34	34	18	.....	.....	....	34	....	....	34	....	....	....	....	..	..	578 00	.....
....	...	33	33	33	33	...	.....	.....	....	33	....	....	.....	....	....	....	....	..	..	116 00	.....
10	...	34	34	34	34	34	27	27	10	34	....	....	34	....	....	....	....	..	..	580 00	4,446 23
....	...	36	36	36	36	6	.....	.....	....	36	....	....	36	....	....	....	....	..	..	580 00	.....
2	...	16	16	16	16	6	4	4	2	16	....	....	16	....	....	....	....	..	..	857 65	46 60
3	...	16	16	16	16	12	7	7	3	16	....	....	.....	....	....	....	....	..	..	868 90	36 62
4	...	16	16	16	16	11	4	4	4	16	....	....	.....	....	....	....	....	..	..	900 00	60 95
3	...	15	15	15	15	5	5	5	3	15	....	....	15	....	....	....	....	..	..	1,032 60	221 39
2	...	15	15	15	15	9	6	6	2	15	....	....	.....	....	....	....	....	..	..	900 00	121 68
2	...	12	12	12	12	9	8	8	2	12	....	....	.....	....	....	....	....	..	..	900 00	.....
9	...	38	38	38	38	21	18	18	9	38	....	....	.....	....	....	....	....	..	..	580 00	588 20
1	...	6	6	6	6	3	1	1	1	6	....	....	.....	....	....	....	....	..	..	960 00	.....
9	...	32	32	32	32	15	13	13	9	32	....	....	.....	....	....	....	....	..	..	1,020 00	181 58
1	...	16	16	16	16	12	8	8	1	16	....	....	.....	....	....	....	....	..	..	960 00	173 70
1	...	9	9	9	9	7	6	6	1	9	....	....	.....	....	....	....	....	..	..	909 70	76 30
5	...	15	15	15	15	13	8	8	5	15	....	....	15	....	....	....	....	..	..	912 00	608 57
2	...	19	19	19	19	13	8	8	2	19	....	....	.....	....	....	....	....	..	..	1,080 00	21 00
...	...	27	27	27	27	9	.....	.....	....	27	....	....	.....	....	....	....	....	..	..	1,260 00	.....
....	...	28	28	28	28	10	.....	.....	....	28	....	....	.....	....	....	....	....	..	..	1,153 55	.....
....	...	10	10	10	10	2	2	2	....	10	....	....	10	....	....	....	....	..	..	900 00	.....
9	...	16	16	16	16	16	16	16	9	16	....	....	16	....	....	....	....	..	..	580 00	1,473 85
....	...	30	30	30	30	17	10	10	....	30	....	....	30	....	....	....	....	..	..	580 00	.....
....	...	16	16	16	16	7	5	5	....	16	....	....	16	....	....	....	....	..	..	1,140 00	97 14
2	...	8	8	8	8	7	4	4	2	8	....	....	8	....	....	....	....	..	..	580 00	275 67
4	...	17	17	17	17	10	8	8	4	17	....	....	17	....	....	....	....	..	..	960 00	116 19
3	...	13	13	13	13	7	7	7	3	13	....	....	.....	....	....	....	....	..	..	960 00	.....
....	...	8	8	8	8	4	3	3	....	8	....	....	8	....	....	....	....	..	..	540 00	.....
33	...	33	33	33	33	33	33	33	33	33	....	....	.....	....	....	....	....	..	..	7,847 68	.....
....	..	35	35	35	35	35	35	35	...	35	....	....	.....	....	....	....	....	..	..	.....	.....
....	...	39	39	39	39	28	.....	.....	....	39	....	....	.....	....	....	....	....	..	..	2,900 00	.....
....	...	52	52	52	52	.....	.....	.....	..	52	....	....	.....	....	....	....	....	..	..	.....	.....
4	...	22	22	22	22	14	8	8	4	22	....	....	.....	....	....	....	....	..	..	580 00	381 40
....	13	13	6	.....	6	.....	6	.....	13	13	....	....	.....	13	13	13	...	13	7	580 00	18,672 10
28	...	28	28	28	28	28	28	28	28	28	....	....	.....	....	....	....	....	..	..	580 00	.....
....	...	36	36	36	36	36	36	36	....	36	....	....	.....	....	....	....	....	..	..	580 00	.....
....	...	22	22	22	22	8	.....	.....	....	22	....	....	.....	....	....	....	....	..	..	580 00	.....
....	...	39	39	39	39	39	19	19	....	39	....	....	.....	....	....	....	....	..	..	580 00	.....
....	...	42	42	42	42	.....	.....	.....	....	42	....	....	.....	....	....	....	....	..	..	580 00	.....
2	...	20	20	20	20	10	6	6	2	20	....	....	.....	....	....	....	....	..	..	580 00	355 50
1	...	9	9	9	9	6	2	2	1	9	....	....	.....	....	....	....	....	..	..	960 00	172 94
3	...	10	10	10	10	9	7	7	3	10	....	....	10	....	....	....	....	..	..	960 00	4 14

RURAL AND ASSISTED SCHOOLS.

School.	Teacher.	Certificate.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Grantham	Miss E. M. Percival	2nd Class	1,080	187	30	13	17	21.49	3	5	....	9	7
Grant Mine	Mrs. C. Mrus	2nd "	960	188	34	17	17	23.86	5	4	2	14	9
Gray Creek	Miss M. C. Martin	2nd "	960	188	12	6	6	10.41	2	4	....	2	3
Grindrod	Miss B. M. Bunn	2nd "	900	187	33	20	13	25.31	9	3	6	2	8
Hall's Landing	Miss O. K. Leigh	2nd "	1,080	186½	14	6	8	10.17	3	....	2	1	4
Hanall	Miss H. D. Forrest	2nd "	1,050	117	9	4	5	5.43	2	....	2	3	1
Happy Valley	Miss D. S. Hastie	2nd "	840	186	25	14	11	17.91	4	3	7	3	7
Hardwick Island	Miss G. Klein	3rd "	1,020	182	11	6	5	10.16	1	....	....	4	4
Harewood, 1st Division	J. W. Hughes	1st "	1,500	189	53	25	28	43.22	....	....	....	....	....
" 2nd "	W. S. Fox	1st "	1,260	189	53	26	27	44.91	....	....	....	....	53
" 3rd "	Miss N. Green	2nd "	1,140	189	41	21	20	36.73	41	....	....	....	....
" 4th "	Miss M. Haddow	2nd "	1,020	189	54	31	23	48.57	....	....	....	54	....
" 5th "	Miss M. McKinnell	2nd "	960	189	63	40	23	51.74	....	....	....	....	63
" 6th "	Miss C. Hawthornthwaite	3rd "	960	189	41	18	23	36.01	....	23	18	....	....
" 7th "	Miss A. Kenyon	2nd "	960	189	27	12	15	26.38	12	7	8	....	....
" 8th "	Miss V. Johnson	2nd "	960	189	17	10	7	16.35	5	5	7	....	....
" 9th "	Miss L. Piper	1st "	960	137	29	14	15	26.76	....	....	....	29	....
Harpers Camp	Miss M. McDougall	2nd "	1,200	188	11	5	6	9.42	1	....	3	1	3
Harrogate	Miss E. A. Davis	2nd "	1,020	185	15	4	11	10.35	1	....	3	5	4
Harrop	Miss E. A. Phillips	2nd "	1,080	180	15	8	7	13.75	2	1	....	2	6
Hatzic Prairie	Miss E. Barr	2nd "	900	178	10	5	5	6.32	1	....	....	1	4
Hazelton	Miss R. M. Allen	2nd "	1,200	186	37	17	20	23.05	7	6	1	8	8
Hazelton, New	J. Dilworth	3rd "	1,140	186	26	16	10	19.40	5	2	....	6	8
Headquarters	Miss E. M. Ferries	3rd "	960	183½	35	16	19	21.08	10	1	9	7	4
Hedley, 1st Division	R. B. Masterton	1st "	1,500	188	10	6	4	9.79	....	....	....	....	....
" 2nd "	Mrs. J. A. Asher	1st "	1,200	188	19	5	14	17.02	....	....	....	6	9
" 3rd "	Miss G. C. Smith	2nd "	1,300	184½	25	14	11	22.32	10	9	6	....	....
Heffley Creek	Miss E. A. Fee	2nd "	1,050	181	18	8	10	14.56	4	....	2	1	3
Heffley Creek, Upper	Miss C. M. Tribe	2nd "	1,000	186½	8	2	6	4.97	1	1	1	....	2
Hendon	Mrs. E. Lemdrigan	2nd "	960	176	14	6	8	11.59	2	2	2	3	3
Heriot Bay	Miss A. Fenton	3rd "	960	183	18	5	13	10.56	7	....	2	2	6
Heywood's Corner	L. J. Botting	3rd "	1,020	187	13	5	8	11.45	....	....	2	....	7
Highland	J. Likeman	3rd "	900	176	12	6	6	7.51	2	....	1	2	1
Hilborn	Miss A. Ormond	2nd "	1,140	187½	9	6	3	6.64	2	1	3	1	1
Hilliers	Miss M. McCourt	3rd "	960	186½	16	8	8	14.93	3	4	2	....	6
Hilltop	Miss O. C. Steen	3rd "	1,020	188	13	5	8	10.81	....	3	1	3	2
Hilton	Miss A. H. Mitchell	3rd "	960	180½	24	14	10	15.12	6	....	3	4	4
Hope, 1st Division	A. E. Eckardt	2nd "	1,380	183	27	12	15	17.78	....	....	....	....	11
" 2nd "	Miss G. V. Inkman	3rd "	960	184	46	18	28	34.40	14	9	5	18	....
Hope Station	Miss C. G. Smith	2nd "	960	186	8	3	5	6.81	1	....	1	1	3
Hornby Island	Miss E. R. Driver	2nd "	960	183	11	4	7	6.86	1	2	1	3	3
Horse Creek	Miss R. C. Tibballs	3rd "	1,080	181	13	10	3	9.03	2	2	4	1	2
Hosmer	Miss M. E. Willoughby	3rd "	1,140	185	24	12	12	18.39	....	7	1	5	6
Houston	Miss L. McDonald	3rd "	1,100	184	17	8	9	9.28	6	2	....	4	2
Howe Sound, 1st D. (Sup.)	Miss J. MacNaughton	Academic	1,500	178	10	3	7	7.63	....	....	....	....	....
" 2nd "	Miss O. E. Carlson	1st Class	1,200	187½	27	13	14	24.58	....	....	....	....	13
" 3rd "	Miss J. B. Bothwell	2nd "	1,080	186½	50	22	28	37.85	13	5	8	10	14
Hulatt	G. F. Elliot	Temporary	1,080	95	16	8	8	11.90	6	1	....	7	2
Hume, 1st Division	G. E. Sparkes	1st Class	2,400	187	23	9	14	21.94	....	....	....	....	....
" 2nd "	A. J. Clotworthy	1st "	1,800	187	35	16	19	31.53	....	....	....	....	....
" 3rd "	Miss M. McGregor	1st "	1,400	187	33	19	14	32.44	....	....	....	....	33
" 4th "	Miss C. A. Coates	1st "	1,300	187	39	19	20	29.68	....	....	....	39	..
" 5th "	Miss L. Hunter	3rd "	1,200	187	30	13	17	29.74	....	....	30	....	....
" 6th "	Miss O. V. Abey	3rd "	1,200	187	39	17	22	30.25	24	15	....	....	....
Hupel	Miss M. G. Huffman	Temporary	1,020	190	17	10	7	8.04	2	....	2	2	7
Huscroft	Miss J. F. Brown	1st Class	1,080	181½	12	5	7	10.27	1	....	....	3	3
Hutton	Miss E. E. Lowerison	3rd "	1,200	183½	18	11	7	11.87	5	3	4	....	4
Ingram Mountain	Miss K. Tait	3rd "	960	185½	7	....	7	6.42	....	....	....	2	2
Invermere	Miss N. L. Thacker	2nd "	1,080	184½	22	15	7	13.84	10	2	....	2	4
Inverness	J. N. Muir	Academic	1,050	(Closed)	....	....	....	....	....	....	....	....	....
Ioco, 1st Division (Sup.)	A. T. Hadden	Temporary	1,320	178	18	7	11	14.01	....	....	....	....	....
" 2nd "	Miss M. E. Kneeshaw	2nd Class	1,140	189	29	15	14	25.28	....	....	....	6	17
" 3rd "	Miss A. Moisio	2nd "	960	189	34	21	13	28.66	16	5	9	4	....
Irvine Landing	Miss M. M. Graham	1st "	960	175	19	12	7	15.35	2	....	3	6	3
Isabella Point	Miss M. C. Gyves	3rd "	900	181	17	10	7	12.93	3	....	3	4	6
Jaffray, 1st Division	Miss D. Dixon	Temporary	1,150	187½	26	14	12	18.70	....	....	....	....	20
" 2nd "	Miss F. MacSween	3rd Class	1,000	188½	24	9	15	18.38	6	3	6	9	....
James Island	Miss M. McEachern	2nd "	960	188	36	22	14	28.97	6	....	7	5	9
Jordan River	Miss N. Maloney	2nd "	960	188	24	9	15	20.29	6	2	3	4	8
Kaleden	Miss E. Milley	3rd "	960	185	13	6	7	7.64	1	5	....	2	4
Kaleva	Miss L. Tayler	2nd "	1,020	180	10	6	4	9.20	....	3	....	2	2
Kedleston	Miss I. M. McCubbin	3rd "	1,020	184½	12	4	8	11.79	1	2	1	....	5
Keefers	Miss B. McDonald	3rd "	960	189	13	6	7	6.99	5	1	1	4	....
Kelowna, East, 1st Div.	Miss A. Reekie	2nd "	1,200	178½	28	19	9	24.33	12	5	5	6	....
" 2nd "	R. A. Lyons	2nd "	1,200	116½	16	5	11	11.94	....	....	....	....	8

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			
																					$ cts.	$ cts.
6	...	30	30	30	30	22	13	13	6	30	....	....	.....	....	...	...	...	..	..		1,080 00	160 27
....	...	34	34	34	34	23	9	9	....	34	....	....	.....	....	...	...	...	..	..		960 00	25 30
1	...	12	12	12	12	6	4	4	1	12	....	....	.....	....	...	...	...	..	..		918 00	180 48
5	...	33	33	33	33	15	13	13	5	33	...	....	33	....	...	...	...	..	..		580 00	1,053 81
4	...	14	14	14	14	9	8	8	4	14	....	....	14	....	...	...	...	..	..		1,080 00	126 75
1	...	9	9	9	9	5	2	2	1	9	...	....	.....	....	...	...	...	..	..		630 00	.....
1	...	25	25	25	25	11	8	8	1	25	....	....	.....	....	...	...	...	..	..		580 00	864 69
2	...	11	11	11	11	10	6	6	2	11	....	....	11	....	...	...	...	..	..		1,014 35	.....
53	...	53	53	53	53	53	53	53	53	53	....	....	53	....	...	...	...	..	..		1,500 00	3,536 97
....	...	53	53	53	53	53	53	53	....	53	....	....	53	....	...	...	...	..	..		1,260 00	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	.....	....	...	...	...	..	..		1,140 00	.....
....	...	54	54	54	54	54	.....	.....	....	54	....	....	54	....	...	...	...	..	..		1,020 00	.....
...	...	63	63	63	63	63	63	63	....	63	....	....	63	....	...	...	...	..	..		960 00	.....
....	...	41	41	41	41	.....	.....	.....	....	41	....	....	.....	....	...	...	...	..	..		960 00	.....
....	...	27	27	27	27	.....	.....	.....	....	27	....	....	.....	....	...	...	...	..	..		960 00	.....
....	...	17	17	17	17	.....	.....	.....	....	17	....	....	.....	....	...	...	...	..	..		960 00	.....
....	...	29	29	29	29	29	.....	.....	....	29	....	....	.....	....	...	...	...	..	..		702 55	.....
3	...	11	11	11	11	7	6	6	3	11	...	....	.....	....	...	...	...	..	..		1,200 00	146 91
2	...	15	15	15	15	11	6	6	2	15	....	....	.....	....	...	...	...	..	..		1,010 30	78 50
4	...	15	15	15	15	12	10	10	4	15	....	....	15	....	...	...	...	..	..		1,080 00	538 60
4	...	10	10	10	10	9	8	8	4	10	....	....	.....	....	...	...	...	..	..		580 00	326 62
7	...	37	37	37	37	23	15	15	7	37	....	....	.....	....	...	...	...	..	..		1,200 00	496 45
5	...	26	26	26	26	19	13	13	5	26	....	....	26	....	...	...	...	..	..		1,125 10	506 63
4	...	35	35	35	35	15	8	8	4	35	....	....	35	....	...	...	...	..	..		960 00	455 18
5	5	10	5	5	10	10	10	10	10	10	....	....	.....	5	5	...	5	5	5		580 00	3,687 80
4	...	19	19	19	19	19	13	13	4	19	....	....	.....	....	...	...	...	..	..		580 00	.....
....	...	25	25	25	25	.....	.....	.....	....	25	....	....	.....	....	...	...	...	..	..		580 00	.....
8	...	18	18	18	18	12	11	11	8	18	....	....	.....	....	...	...	...	..	..		1,050 00	423 72
3	...	8	8	8	8	5	5	5	3	8	....	....	.....	....	...	...	...	..	..		1,000 00	139 05
2	...	14	14	14	14	8	5	5	2	14	...	....	.....	....	...	...	...	..	..		918 00	.....
1	...	18	18	18	18	9	7	7	1	18	....	....	.....	....	...	...	...	..	..		960 00	642 74
4	...	13	13	13	13	11	11	11	4	13	....	....	.....	....	...	...	...	..	..		1,020 00	626 08
6	...	12	12	12	12	9	7	7	6	12	....	....	.....	....	...	...	...	..	..		891 45	304 35
1	...	9	9	9	9	3	2	2	1	9	....	....	9	....	...	...	...	..	..		1,140 00	104 00
1	...	16	16	16	16	7	7	7	1	16	....	....	.....	....	...	...	...	..	..		960 00	.....
4	...	13	13	13	13	9	6	6	4	13	....	....	.....	....	...	...	...	..	..		1,020 00	115 40
7	...	24	24	24	24	15	11	11	7	24	....	....	.....	....	...	...	...	..	..		928 00	35 55
16	...	27	27	27	27	27	27	27	16	27	....	....	.....	....	...	...	...	..	..		580 00	1,698 66
....	...	46	46	46	46	18	.....	.....	....	46	....	....	.....	....	...	...	...	..	..		580 00	.....
2	...	8	8	8	8	6	5	5	2	8	...	....	8	....	...	...	...	..	..		952 00	37 91
1	...	11	11	11	11	7	4	4	1	11	....	....	.....	....	...	...	...	..	..		946 30	65 00
2	...	13	13	13	13	5	4	4	2	13	....	....	.....	....	...	...	...	..	..		1,080 00	48 32
5	...	24	24	24	24	16	11	11	5	24	....	....	.....	....	...	...	...	..	..		1,140 00	823 01
3	...	17	17	17	17	9	5	5	3	17	....	....	.....	....	...	...	...	..	..		1,075 55	246 83
....	10	10	4	.....	4	.....	.....	.....	10	10	....	....	.....	10	10	10	10	..	4		564 35	3,609 57
14	...	27	27	27	27	27	27	27	14	27	....	....	.....	....	...	...	...	..	..		577 25	.....
....	...	50	50	50	50	24	14	14	...	50	....	....	.....	....	...	...	...	..	..		577 25	.....
....	...	16	16	16	16	9	2	2	...	16	....	....	.....	....	...	...	...	..	..		540 00	336 75
23	...	23	23	23	23	23	23	23	23	23	....	....	.....	....	...	...	...	..	..		580 00	.....
35	...	35	35	35	35	35	35	35	35	35	16	19	.....	...	...	...	...	..	..		580 00	.....
....	...	33	33	33	33	33	33	33	....	33	....	....	.....	....	...	...	...	..	..		580 00	.....
....	...	39	39	39	39	39	.....	.....	....	39	....	....	.....	....	...	...	...	..	..		580 00	.....
...	...	30	30	30	30	.....	.....	.....	....	30	....	....	.....	....	...	...	...	..	..		580 00	.....
....	...	39	39	39	39	.....	.....	.....	....	39	....	....	.....	....	...	...	...	..	..		580 00	.....
4	...	17	17	17	17	13	11	11	4	17	....	....	.....	....	...	...	...	..	..		1,015 15	.....
5	...	12	12	12	12	11	8	8	5	12	....	....	.....	....	...	...	...	..	..		1,080 00	277 29
2	...	18	18	18	18	6	6	6	2	18	....	....	.....	....	...	...	...	..	..		1,166 65	.....
3	...	7	7	7	7	7	5	5	3	7	....	....	.....	....	...	...	...	..	..		960 00	25 00
4	...	22	22	22	22	10	8	8	4	22	....	....	.....	....	...	...	...	..	..		1,080 00	535 54
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	.....	....	...	...	...	..	..		210 00	.....
10	8	18	14	10	14	10	10	10	18	18	....	....	.....	8	8	8	8	4	4		1,254 00	1,670 32
6	...	29	29	29	29	29	23	23	6	29	....	....	.....	....	...	...	...	..	..		1,140 00	.....
....	...	34	34	34	34	4	.....	.....	....	34	....	....	.....	....	...	...	...	..	..		960 00	.....
5	...	19	19	19	19	14	8	8	5	19	....	....	19	....	...	...	...	..	..		931 80	.....
1	...	17	17	17	17	11	7	7	1	17	....	....	.....	....	...	...	...	..	..		880 00	.....
6	...	26	26	26	26	26	26	26	6	26	....	....	.....	....	...	...	...	..	..		580 00	1,631 35
....	...	24	24	24	24	9	.....	.....	....	24	....	....	24	....	...	...	...	..	..		580 00	.....
9	...	36	36	36	36	23	18	18	9	36	...	....	36	....	...	...	...	..	..		960 00	387 66
1	...	24	24	24	24	13	9	9	1	24	....	....	.....	....	...	...	...	..	..		960 00	104 51
1	...	13	13	13	13	7	5	5	1	13	....	....	13	....	...	...	...	..	..		949 35	.....
3	...	10	10	10	10	7	5	5	3	10	....	....	.....	....	...	...	...	..	..		997 35	439 24
3	...	12	12	12	12	8	8	8	3	12	....	....	.....	....	...	...	...	..	..		1,020 00	143 75
2	...	13	13	13	13	6	2	2	2	13	...	....	.....	....	...	...	...	..	..		960 00	149 09
....	...	28	28	28	28	6	.....	.....	....	28	....	....	.....	....	...	...	...	..	..		580 00	1,932 00
8	...	16	16	16	16	16	16	16	8	16	....	....	.....	....	...	...	...	..	..		348 00	.....

RURAL AND ASSISTED SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
Kelowna, North	Miss L. Rumble	2nd Class	1,200	185	24	11	13	20.57	1	....	3	4	10
Keremeos, 1st Division	A. S. Towell	Academic	1,500	184	15	6	9	13.85	....	....	....	....	....
" 2nd "	Mrs. M. F. East	2nd Class	1,200	178	28	17	11	24.87	....	....	....	....	18
" 3rd "	Miss A. Spraggett	2nd "	1,080	179	41	21	20	31.15	8	4	11	18	....
Kettle River, North	Miss M. Barker	1st "	1,020	188	16	9	7	7.46	....	4	1	....	7
Kettle Valley	Miss D. F. Debney	3rd "	1,080	176	14	9	5	12.46	1	....	2	1	8
Kildonan	J. Coates	3rd "	1,000	188	13	2	11	10.46	1	2	1	1	2
Killarney	D. Stevenson	Temporary	1,020	184	22	15	7	17.43	1	....	2	3	7
Kimberley, 1st Division	A. P. Robertson	1st Class	1,200	188	39	15	24	27.39	....	....	....	11	14
" 2nd "	Miss M. G. Smyth	2nd "	1,080	187½	33	22	11	27.54	17	7	9	....	....
Kingcome Inlet	Miss M. E. Markle	2nd "	1,020	187	10	2	8	8.74	2	....	....	....	6
Kingsgate	Miss H. H. Whittaker	1st "	1,020	184½	11	5	6	10.14	....	2	2	4	1
Kinnaird	Miss G. E. Redpath	2nd "	1,000	188	21	7	14	11.72	5	4	....	7	3
Kitchener	Miss I. B. Schmidt	3rd "	1,080	183	21	8	13	15.21	5	1	5	5	3
Kitsumgallum, 1st Div	W. W. O'Neill	2nd "	1,500	189½	29	15	14	24.60	....	....	....	....	24
" 2nd "	Miss I. M. Pearson	2nd "	1,000	189½	34	18	16	25.79	7	3	12	3	9
" 3rd "	Miss E. Marsh	2nd "	840	189½	25	15	10	19.62	18	5	2	....	....
Knutsford	Miss A. J. Shannon	3rd "	960	115	13	7	6	7.23	2	3	....	4	2
Koch Siding	Miss B. M. Shiell	2nd "	1,020	187½	22	11	11	18.71	9	1	2	1	3
Koksilah	Miss R. E. Smith	3rd "	960	167	22	18	4	16.96	5	3	1	4	2
Krestova	Miss M. E. Williams	2nd "	1,200	181	44	25	19	19.58	8	5	17	8	6
Lac du Bois	Miss A. Griffiths	Academic	960	171	9	5	4	6.89	....	....	1	2	3
Lackenby	Mrs. F. S. Morrow	2nd Class	960	64	13	7	6	9.75	7	2	....	1	1
Lac la Hache	Miss L. M. Barton	2nd "	1,140	179	10	5	5	7.33	1	2	1	1	3
Lake Buntzen	Miss M. L. Chadwick	2nd "	960	177	11	5	6	10.07	....	2	2	5	1
Lake Evelyn	J. N. Muir	Academic	1,020	73	9	6	3	7.56	3	4	....	....	2
Lakes District	Miss P. Teague	2nd Class	1,080	180½	10	7	3	6.78	4	1	2	1	2
Landry	A. Simpson	1st "	1,320	185	16	8	8	6.28	4	....	1	2	4
Lang Bay	Miss A. Macaulay	2nd "	960	183½	25	11	14	20.42	5	2	2	3	9
Langford	Miss W. G. Sutton	2nd "	990	187½	44	22	22	32.84	8	7	4	4	15
Lawn Hill	Miss H. Graham	2nd "	1,080	58	10	7	3	9.08	6	....	....	1	....
Lazo	Miss C. Battison	2nd "	1,020	187	34	18	16	23.56	8	4	1	8	7
Lee	Miss L. Borden	Temporary	1,080	178	12	7	5	9.41	2	4	3	2	1
Lee Creek	Miss J. Sutherland	3rd Class	960	188½	12	5	7	9.97	1	2	3	3	2
Lillooet, 1st Division	Miss L. G. Rath	3rd "	1,070	164	25	8	17	21.28	....	....	....	....	14
" 2nd "	Miss M. C. Rath	3rd "	950	140	27	13	14	21.14	10	3	5	9	....
Little Fort	Miss A. S. Haskin	2nd "	1,050	185½	48	29	19	28.05	15	2	3	10	10
Long Lake	Miss L. Watson	2nd "	900	179	15	9	6	10.20	....	1	....	3	6
Loos	Miss N. Bevier	3rd "	1,140	180	13	7	6	7.73	2	3	1	2	4
Louis Creek	Miss M. Wright	2nd "	900	184	14	7	7	12.36	5	1	....	1	1
Lucerne	Miss W. E. Hughes	Temporary	1,100	178	33	15	18	20.58	9	4	8	6	6
Lumby, 1st Division	J. Williams	Academic	1,320	188	33	17	16	24.12	....	....	....	....	5
" 2nd "	Miss E. M. Beatty	3rd Class	900	188	27	11	16	19.42	7	....	5	3	12
Lund	Miss G. S. Jones	3rd "	900	187½	36	19	17	28.04	5	5	....	10	15
Lytton	Miss E. Green	Temporary	1,100	164½	34	19	15	26.29	6	7	3	1	7
Mabel Lake	J. E. Williams	Academic	1,020	187	23	11	12	16.18	5	4	3	3	5
Magna Bay	Miss P. Dench	3rd Class	960	189	17	9	8	13.37	5	1	5	3	3
Malakwa	Miss M. L. Bulmer	1st "	1,050	171	32	11	21	25.22	6	2	3	9	7
Malcolm Island, 1st Div	Miss M. M. Mutrie	Temporary	1,260	183	27	10	17	24.15	....	....	....	....	17
" 2nd "	Miss J. A. Mutrie	3rd Class	1,020	183	17	8	9	14.84	11	2	2	2	....
Mapes	Miss E. Arland	2nd "	1,140	189	21	9	12	12.28	1	1	5	5	6
Mara, 1st Division	Miss A. Stewart	1st "	1,200	187½	23	8	15	20.34	....	....	....	....	17
" 2nd "	Miss M. Allen	2nd "	900	187½	39	21	18	31.43	22	5	9	3	....
Marshall	H. Lewis	Academic	960	178	12	4	8	9.54	2	2	3	2	....
Martin's Prairie	Miss L. Mackenzie	3rd Class	1,100	186	36	20	16	27.96	4	6	1	6	9
Marysville	Miss D. Fingland	Temporary	1,200	143	20	13	7	16.19	3	....	1	6	5
Masset	Miss M. Morriss	2nd Class	1,100	178½	9	4	5	8.05	....	....	3	....	3
Mayne Island	E. V. Braithwaite	2nd "	840	173	22	11	11	18.67	5	3	..	6	4
Mayo	Miss M. W. Evans	3rd "	900	115	8	7	1	7.45	6	....	1	1	...
Mayook	Miss A. Fleetwood	Temporary	1,020	134	14	9	5	9.51	6	....	....	4	1
Meadow Spur	Miss A. E. Jerome	2nd Class	1,020	187	13	8	5	10.00	....	2	....	2	5
Meadow Valley	Miss A. Murray	2nd "	960	188½	20	10	10	14.41	9	....	2	3	3
Meldrum Creek	Miss M. Sinister	2nd "	1,200	130½	16	8	8	10.86	1	3	....	5	7
Merville, 1st Division	Miss E. Smith	2nd "	1,200	183½	29	18	11	23.37	....	....	....	9	12
" 2nd "	Miss I. B. Scobie	3rd "	1,020	183	36	16	20	28.26	18	6	9	3	....
Metchosin	Miss I. G. Sprinkling	2nd "	1,000	185½	47	26	21	25.66	5	6	2	8	9
Michel, 1st Division	A. B. Boyer	1st "	1,140	184	32	22	10	25.60	....	....	....	....	21
" 2nd "	Miss L. M. Cameron	2nd "	900	179½	46	23	23	36.72	....	..	6	12	28
" 3rd "	Miss H. D. Jones	2nd "	900	164½	53	21	32	39.37	43	10	....	....	....
Michel, New, 1st Division	J. E. Morsh	2nd "	1,440	186	41	21	20	26.45	....	....	....	....	24
" 2nd "	Miss E. M. Cheer	Temporary	1,200	166½	41	18	23	35.41	...	....	1	29	11
" 3rd "	Miss A. Nicholson	2nd Class	1,000	177	42	19	23	36.58	....	3	21	18	....
" 4th "	Miss A. L. Kerr	2nd "	960	183	49	23	26	40.25	36	13	....	....	....
Midway	A. P. Smith	Academic	1,600	189	39	21	18	28.96	12	....	6	4	11
Mill Bay	Miss P. M. Sutton	3rd Class	1,020	187½	30	21	9	22.79	8	6	2	....	11

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																						Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.			$ cts.	$ cts.
6	...	24	24	24	24	20	16	16	6	24	....	....	.....	.....	...	...	...	..	..			577 25	1,401 25
6	9	15	15	15	15	6	6	6	15	15	....	....	.....	9	9	9	9	9	2			580 00	
10	...	28	28	28	28	28	28	28	10	28	....	....	.....	.....	...	...	...	..	..			580 00	4,295 17
....	...	41	41	41	41	18	.....	.....	...	41	....	....	.....	.....	...	...	...	..	..			580 00	
4	...	16	16	16	16	11	11	11	4	16	....	....	16	.....	...	...	...	..	..			1,062 00	83 35
2	...	14	14	14	14	11	10	10	2	14	....	....	14	.....	...	...	...	..	..			1,080 00	236 66
6	...	13	13	13	13	9	8	8	6	13	....	....	.....	.....	...	...	...	..	..			1,000 00	.....
9	...	22	22	22	22	19	16	16	9	22	....	....	.....	.....	...	...	...	..	..			1,000 60	286 68
14	...	39	39	39	39	39	28	28	14	39	....	....	.....	.....	...	...	...	..	..			1,200 00	3,478 43
....	...	33	33	33	33	.....	.....	.....	...	33	....	....	.....	.....	...	...	...	..	..			1,080 00	.....
2	...	10	10	10	10	8	8	8	2	10	....	....	10	.....	...	...	...	..	..			1,020 00	25 37
2	...	11	11	11	11	7	3	3	2	11	....	....	.....	.....	...	...	...	..	..			1,001 15	392 13
2	...	21	21	21	21	12	5	5	2	21	....	....	.....	.....	...	...	...	..	..			1,000 00	24 00
2	...	21	21	21	21	10	5	5	2	21	....	....	.....	.....	...	...	...	..	..			1,044 00	737 01
5	...	29	29	29	29	29	29	29	5	29	....	....	.....	.....	...	...	...	..	..			580 00	3,712 44
....	...	34	34	34	34	12	9	9	....	34	....	....	.....	.....	...	...	...	..	..			580 00	....
....	...	25	25	25	25	.....	.....	.....	...	25	....	....	25	.....	...	...	...	..	..			580 00	.....
2	...	13	13	13	13	8	4	4	2	13	....	....	.....	.....	...	...	...	..	..			576 00	.....
6	...	22	22	22	22	10	9	9	6	22	....	....	.....	.....	...	...	...	..	..			1,020 00	239 33
7	...	22	22	22	22	13	9	9	7	22	....	....	22	.....	...	...	...	..	..			864 00	243 31
....	...	44	44	44	44	14	6	6	....	....	....	....	44	.....	...	...	...	..	..			1,200 00	.....
3	...	9	9	9	9	8	6	6	3	9	....	....	.....	.....	...	...	...	..	..			922 65	200 70
2	...	13	13	13	13	4	3	3	2	13	....	....	.....	.....	...	...	...	..	..			346 65	....
2	...	10	10	10	10	6	5	5	2	10	....	....	10	.....	...	...	...	..	..			1,140 00	312 60
1	...	11	11	11	11	7	2	2	1	11	....	....	.....	.....	...	...	...	..	..			960 00	....
....	...	9	9	9	9	2	2	2	....	9	....	....	9	.....	...	...	...	..	..			391 00	.....
...	...	10	10	10	10	3	2	2	....	10	....	....	.....	.....	...	...	...	..	..			1,080 00	424 17
5	...	16	16	16	16	11	9	9	5	16	....	....	.....	.....	...	...	...	..	..			1,320 00	471 67
4	...	25	25	25	25	16	13	13	4	25	....	....	25	.....	...	...	...	..	..			949 85	206 18
6	...	44	44	44	44	25	21	21	6	44	....	....	44	.....	...	...	...	..	..			580 00	951 84
3	...	10	10	10	10	4	3	3	3	10	....	....	.....	.....	...	...	...	..	..			403 35	323 89
6	...	34	34	34	84	21	13	13	6	34	....	....	34	.....	...	...	...	..	..			1,020 00	260 32
....	...	12	12	12	12	3	1	1	..	12	....	..	.....	.....	...	...	...	..	..			1,016 20	261 83
1	...	12	12	12	12	6	3	3	1	12	...	....	12	.....	...	...	...	..	..			960 00	.....
11	...	25	25	25	25	25	25	25	11	25	....	....	.....	.....	...	...	...	..	..			566 85	1,151 15
....	...	27	27	27	27	9	.....	.....	...	27	....	....	.....	.....	...	...	...	..	..			437 65	.....
8	...	48	48	48	48	28	18	18	8	48	....	....	48	.....	...	...	...	..	..			1,050 00	168 83
5	...	15	15	15	15	14	11	11	5	15	....	....	.....	.....	...	...	...	..	..			580 00	670 08
1	...	13	13	13	13	7	5	5	1	13	....	....	13	.....	...	...	...	..	..			1,140 00	.....
6	...	14	14	14	14	8	7	7	6	14	....	....	14	.....	...	...	...	..	..			580 00	1,257 93
....	...	33	33	33	33	12	6	6	....	33	....	....	.....	.....	...	...	...	..	..			1,075 55	.....
28	...	33	33	33	33	33	33	33	28	33	....	....	.....	.....	...	...	...	..	..			580 00	2,495 92
....	...	27	27	27	27	15	12	12	....	27	....	....	.....	.....	...	...	...	..	..			580 00	.....
1	...	36	36	36	36	26	16	16	1	36	....	....	.....	.....	...	...	...	..	..			577 25	518 94
10	...	34	24	34	34	18	17	17	10	34	....	....	.....	.....	...	...	...	..	..			535 85	713 38
3	...	23	23	23	23	11	8	8	3	23	....	....	.....	.....	...	...	...	..	..			1,020 00	.....
....	...	17	17	17	17	6	3	3	....	17	....	....	.....	.....	...	...	...	..	..			960 00	116 06
5	...	32	32	32	32	21	12	12	5	32	....	....	32	.....	...	...	...	..	..			516 50	790 70
10	...	27	27	27	27	27	27	27	10	27	....	....	27	.....	...	...	...	..	..			1,260 00	389 40
....	...	17	17	17	17	2	.....	.....	...	.....	....	....	17	.....	...	...	...	..	..			1,020 00	
3	...	21	21	21	21	14	9	9	3	21	....	....	.....	.....	...	...	...	..	..			1,133 30	110 94
6	...	23	23	23	23	23	23	23	6	23	....	....	.....	.....	...	...	...	..	..			580 00	1,348 73
....	...	39	39	39	39	3	.....	.....	...	39	....	....	.....	.....	...	...	...	..	..			580 00	
3	...	12	12	12	12	5	3	3	3	12	..	..	.....	.....	...	...	...	..	..			949 35	106 22
10	...	36	36	36	36	25	19	19	10	36	....	....	.....	.....	...	...	...	..	..			580 00	1,282 85
5	...	20	20	20	20	16	10	10	5	20	....	....	.....	.....	...	...	...	..	..			453 75	921 85
3	...	9	9	9	9	6	6	6	3	9	....	....	9	.....	...	...	...	..	..			1,100 00	317 88
4	...	22	22	22	22	14	8	8	4	22	....	....	.....	.....	...	...	...	..	..			532 00	278 32
....	...	8	8	8	8	1	.....	.....	...	8	....	....	8	.....	...	...	...	..	..			540 00	476 35
3	...	14	14	14	14	8	4	4	3	14	....	....	.....	.....	...	...	...	..	..			806 70	301 25
4	...	13	13	13	13	11	9	9	4	13	....	....	.....	.....	...	...	...	..	..			1,020 00	127 05
3	...	20	20	20	20	9	6	6	3	20	....	....	.....	.....	...	...	...	..	..			960 00	.....
....	...	16	16	16	16	12	7	7	....	16	....	....	.....	.....	...	...	...	..	..			850 90	.....
8	...	29	29	29	29	29	20	20	8	29	....	....	29	.....	...	...	...	..	..			1,200 00	
....	...	36	36	36	36	3	.....	.....	...	36	....	..	36	.....	...	...	...	..	..			1,020 00	.....
17	...	47	47	47	47	34	26	26	17	47	....	....	.....	.....	...	...	...	..	..			580 00	665 75
11	...	32	32	32	32	32	32	32	11	32	....	....	.....	.....	...	...	...	..	..			576 95	
....	...	46	46	46	46	40	28	28	....	46	....	....	.....	.....	...	...	...	..	..			580 00	
....	...	53	53	53	53	.....	.....	.....	...	53	....	....	53	.....	...	...	...	..	..			522 00	
17	...	41	41	41	41	41	41	41	17	41	....	....	41	.....	...	...	...	..	..			580 00	6,883 10
....	...	41	41	41	41	40	11	11	....	41	....	....	.....	.....	...	...	...	..	..			574 50	
....	...	42	42	42	42	18	.....	.....	....	42	....	....	.....	.....	...	...	...	..	..			566 20	
....	...	49	49	49	49	.....	.....	.....	...	49	....	....	.....	.....	...	...	...	..	..			580 00	
6	...	39	39	39	39	21	17	17	6	39	....	....	.....	.....	...	...	...	..	..			580 00	1,227 86
3	...	30	30	30	30	14	14	14	3	30	....	....	30	.....	...	...	...	..	..			978 00	207 28

RURAL AND ASSISTED SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Mill Creek, 1st Division	Miss C. A. Grant	Temporary	1,140	170	21	11	10	15.05	....	....	....	4	9
" 2nd "	S. O'Neill	3rd Class	960	167½	20	9	11	18.45	8	3	6	3	....
Minto, 1st Division	F. H. Gaudin	2nd "	1,140	185	21	12	9	16.16	....	....	....	....	9
" 2nd "	Miss F. A. Horwood	2nd "	960	186	34	21	13	23.74	7	14	....	13	....
Miocene	K. Candy	Temporary	1,140	112½	9	2	7	7.15	1	1	1	....	2
Mission Creek	Miss W. McGregor	1st Class	1,200	186½	40	19	21	31.63	8	3	4	7	8
Mitchell Bay	Miss W. M. Austin	Temporary	960	183	9	5	4	8.57	....	2	....	....	4
Monte Creek	Miss E. M. Stewart	1st Class	780	116	9	5	4	8.62	....	2	2	2	....
Morrissey Mines	Miss V. A. Davis	Temporary	1,080	176	11	3	8	9.70	3	1	2	4	1
Mountain	Miss H. M. Fletcher	2nd Class	1,020	186	25	14	11	24.68	5	2	6	4	6
Mount Ingersoll	Miss R. J. Glaser	1st "	1,080	187	8	3	5	7.59	....	....	1	3	2
Moyase	Miss M. Murphy	3rd "	1,080	174	19	8	11	11.88	7	....	....	4	4
Moyie, 1st Division	Miss H. Gray	2nd "	1,080	187	26	17	9	19.50	1	....	3	3	7
" 2nd "	Miss W. Johnson	2nd "	960	37	....	....	....	10.48	(clo	sed)	....	....	....
Mud River	Miss J. V. McLarty	Temporary	1,080	139	20	12	8	9.58	7	1	2	3	5
Myncaster	Miss C. A. Stewart	3rd Class	1,020	175½	11	4	7	8.21	....	2	2	4	3
Myrtle Point	Miss M. F. Harris	2nd "	960	184½	10	6	4	9.37	1	....	5	1	1
Macalister	Mrs. F. Pratt-Faulkner	3rd "	1,140	185	15	11	4	9.91	6	....	1	....	2
McBride, 1st Division	H. H. Hall	1st "	1,380	188½	24	10	14	15.86	....	....	....	....	13
" 2nd "	Miss M. A. Baker	2nd "	1,140	184	23	13	10	17.60	13	2	5	3	....
McConnell Creek	Miss E. C. Marshall	3rd "	900	180	15	9	6	10.43	5	3	4	....	....
McGuigan	Miss A. J. Colman	2nd "	960	17½	6	4	2	5.86	6	....	....	....	....
McGuire	Miss M. Essler	3rd "	1,020	187½	17	11	6	13.92	4	....	....	3	5
MacKenzie	Miss E. M. Bruneau	Temporary	1,140	184	27	13	14	16.29	6	2	4	7	5
McLure	Miss D. Cornish	"	900	142	10	6	4	7.85	5	....	....	1	4
Nakusp, 1st Division	T. J. Barron	Academic	1,450	188	13	5	8	9.39	....	....	....	....	....
" 2nd "	R. Struthers	"	1,100	185	37	21	16	26.02	....	....	....	....	19
" 3rd "	Miss C. Vipond	3rd Class	900	183	35	20	15	30.85	10	5	10	10	....
Nanaimo Bay, 1st Div	Miss T. Sampson	1st "	1,140	188	39	19	20	33.21	....	....	....	20	12
" 2nd "	Miss B. Moore	3rd "	1,000	188	43	25	18	37.58	25	9	9	....	....
Nanoose Bay	Miss L. A. Carter	1st "	960	189	21	14	7	17.01	3	2	3	4	6
Naramata, 1st Division	L. Baker	Academic	1,500	185½	23	14	9	16.50	....	....	....	....	....
" 2nd "	Miss A. E. Standen	3rd Class	960	186½	28	13	15	27.27	13	5	8	1	1
" 3rd "	Miss G. Robinson	Academic	900	57	19	11	8	15.44	....	....	....	7	8
Nechako	G. B. Switzer	Temporary	1,080	152	20	6	14	13.77	1	....	3	6	4
Needles	J. F. Nicoll	Academic	1,080	186	22	9	13	14.68	4	....	2	6	4
New Denver, 1st Division	Miss V. Magee	"	1,500	178	24	10	14	17.30	....	....	....	....	....
" 2nd "	Miss E. Dawson	2nd Class	1,020	188	33	16	17	30.53	....	....	....	....	20
" 3rd "	Miss C. Mason	2nd "	1,020	187	31	20	11	27.59	12	3	2	14	....
Newgate	Miss E. H. Curley	1st "	1,020	182½	12	7	5	8.00	2	....	4	2	2
Nickel Plate Mine	Miss L. Dedolph	1st "	1,020	38	....	....	....	5.05	(clo	sed)	....	....	....
Nicola	C. F. Lallemand	2nd "	1,000	189	26	11	15	12.19	2	....	4	4	11
Nicola, Lower	Miss V. A. Watt	Temporary	1,200	186	28	19	9	19.40	6	4	1	2	10
Nicomen	Miss M. McLeod	"	1,000	166	26	15	11	17.84	4	1	3	4	4
Nicomen, North	Miss M. Wilson	2nd Class	840	187	23	9	14	18.53	2	3	5	2	7
Nimpkish	R. Pollock	Temporary	1,020	188	6	5	1	5.61	....	1	....	1	2
Nimpkish River	Miss M. Wright	2nd Class	960	186	11	5	6	9.47	3	6	....	....	....
Nithi River	Miss N. Hazlitt	3rd "	1,140	187	9	5	4	8.83	3	....	2	3	1
Nob Hill	Miss E. Chandler	3rd "	960	186	20	6	14	13.38	5	3	1	4	3
Noosatsum	Miss M. Greenway	2nd "	1,120	176	11	6	5	10.71	....	1	2	4	....
North Bend, 1st Division	Miss M. MacKenzie	2nd "	1,400	183	27	21	6	22.58	....	....	....	....	15
" 2nd "	Miss L. E. Brown	2nd "	960	182	36	18	18	28.02	15	6	5	10	....
Northfield, 1st Division	Miss A. G. Barry	1st "	1,140	188	20	12	8	17.34	....	....	....	....	14
" 2nd "	Miss M. Wilton	1st "	960	188	39	15	24	31.13	9	9	13	8	....
North Thompson, West	Miss F. I. Mills	2nd "	840	187	13	9	4	10.36	1	1	1	1	6
Norwegian Creek	A. B. Richardson	Temporary	1,020	87	11	3	8	9.73	4	....	....	5	2
Notch Hill, 1st Division	Miss E. Connor	2nd Class	900	184	22	7	15	15.38	....	....	....	....	8
" 2nd "	Miss M. Baker	Temporary	780	176½	22	11	11	16.47	6	5	2	9	....
Ocean Falls, 1st Division	A. A. Chapman	Academic	2,640	187½	18	6	12	15.79	....	....	....	....	....
" 2nd "	Miss Wolfenden	1st Class	1,500	187½	24	10	14	20.55	....	....	....	....	14
" 3rd "	Miss R. MacDonald	1st "	1,500	182½	33	23	10	32.05	....	....	....	16	17
" 4th "	Miss E. N. Sing	2nd "	1,325	188½	29	18	11	23.96	....	6	16	7	....
" 5th "	Miss A. S. Grant	2nd "	1,200	180½	24	13	11	21.12	24	....	....	....	....
Okanagan	Miss L. Johnson	3rd "	1,200	188½	39	21	18	30.62	5	6	4	6	10
Okanagan Centre	Miss M. Brown	1st "	1,020	186	12	6	6	11.71	1	3	3	....	3
Okanagan Falls	C. Turner	1st "	1,200	188	20	10	10	15.38	5	4	4	3	3
Okanagan Landing	Miss R. Howard	2nd "	1,200	181	29	13	16	23.01	9	....	4	5	6
Okanagan, South, 1st D.	Miss A. Sutherland	2nd "	1,400	188	22	9	13	18.70	....	....	....	7	12
" 2nd "	Miss A. Macdonald	3rd "	1,000	116	24	15	9	15.58	16	5	3	....	....
Okeover Arm	Miss I. B. Chute	2nd "	960	182	10	6	4	9.93	....	....	4	6	....
Olalla	Miss B. L. Noble	3rd "	1,020	184½	14	8	6	7.95	3	....	....	4	2
Olsen Lake	Miss S. Hopwood	3rd "	960	115½	11	6	5	6.42	3	1	....	2	5
150-Mile House	Miss O. A. Rogers	Temporary	1,200	176	15	7	8	11.39	7	1	1	2	4
One-mile Creek	Miss E. J. Miller	Academic	1,020	188	11	3	8	9.87	1	1	....	3	3
Orange Valley	Miss M. Kerr	Temporary	1,080	32	13	6	7	8.44	4	....	3	2	4

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	$ cts.	$ cts.
8	...	21	21	21	21	21	17	17	8	21	....	....	.....	....	....	....	....	..	..	1,140 00	200 57
.....	...	20	20	20	20	3	.....	.....	.....	20	....	....	20	....	....	....	....	..	..	960 00	
12	...	21	21	21	21	21	21	21	12	21	....	....	.....	....	....	....	....	..	..	1,125 30	611 71
....	...	34	34	34	34	13	.....	.....	.....	34	....	....	.....	....	....	....	....	..	..	952 00	
4	...	9	9	9	9	6	6	6	4	9	....	....	9	....	....	....	....	..	..	725 65	.....
10	...	40	40	40	40	25	18	18	10	40	....	....	.....	....	....	....	....	..	..	576 60	2,310 81
3	...	9	9	9	9	7	7	7	3	9	....	....	9	....	....	....	....	..	..	931 90	88 71
3	...	9	9	9	9	5	3	3	3	9	....	....	9	....	....	....	....	..	..	348 00	217 40
....	...	11	11	11	11	5	1	1	....	11	....	....	11	....	....	....	....	..	..	1,050 60	81 40
2	...	25	25	25	25	12	8	8	2	25	....	....	.....	....	....	....	....	..	..	1,020 00	219 44
2	...	8	8	8	8	7	4	4	2	8	....	....	8	....	....	....	....	..	..	1,080 00	137 34
4	...	19	19	19	19	12	8	8	4	19	....	....	.....	....	....	....	....	..	..	1,050 00	.....
12	...	26	26	26	26	22	19	19	12	26	....	....	26	....	....	....	....	..	..	1,122 00	464 56
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	288 00	
2	...	20	20	20	20	10	7	7	2	20	....	....	.....	....	....	....	....	..	..	805 10	.....
....	...	11	11	11	11	7	3	3	...	11	..	....	.....	....	....	....	....	..	..	978 00	.....
2	...	10	10	10	10	4	3	3	2	10	....	....	.....	....	....	....	....	..	..	960 00	.....
6	...	15	15	15	15	8	8	8	6	15	....	....	.....	....	....	....	....	..	..	1,140 00	32 95
11	...	24	24	24	24	24	24	24	11	24	....	....	24	....	....	....	....	..	..	1,140 00	.....
....	...	23	23	23	23	3	.....	.....	.....	23	....	....	23	....	....	....	....	..	..	972 00	.....
3	...	15	15	15	15	3	3	3	3	15	....	....	.....	....	....	....	....	..	..	900 00	.....
....	...	6	6	6	6	.....	.....	.....	.....	6	....	....	6	....	....	....	....	..	..	96 00	.....
5	...	17	17	17	17	13	10	10	5	17	....	....	.....	....	....	....	....	..	..	1,020 00	126 41
3	...	27	27	27	27	15	8	8	3	27	....	....	.....	....	....	....	....	..	..	1,140 00	267 04
.....	...	10	10	10	10	5	4	4	....	10	....	....	.....	....	....	....	....	..	..	679 10	13 50
....	13	13	13	.....	10	.....	.....	.....	13	13	....	....	.....	13	13	13	9	7	..	580 00	
18	...	37	37	37	37	37	37	37	18	37	....	....	.....	....	....	....	....	..	..	580 00	2,648 00
....	...	35	35	35	35	10	.....	.....	.....	35	....	....	.....	....	....	....	....	..	..	580 00	
7	...	39	39	39	39	39	19	19	7	39	....	....	.....	....	....	....	....	..	..	1,140 00	581 61
.....	...	43	43	43	43	.....	.....	.....	.....	43	....	....	.....	....	....	....	....	..	..	1,000 00	
3	...	21	21	21	21	13	9	9	3	21	....	....	21	....	....	....	....	..	..	960 00	374 81
10	13	23	16	10	16	10	10	10	23	23	....	....	.....	13	13	10	13	7	7	580 00	6,053 98
....	...	28	28	28	28	2	1	1	....	28	....	....	.....	....	....	....	....	..	..	580 00	
4	...	19	19	19	19	19	12	12	4	19	....	....	.....	....	....	....	....	..	..	.....	.....
6	...	20	20	20	20	16	10	10	6	20	....	....	.....	....	....	....	....	..	..	865 00	.....
6	...	22	22	22	22	16	10	10	6	22	....	....	.....	....	....	....	....	..	..	1,080 00	201 22
20	4	24	24	20	24	20	24	20	24	24	....	....	.....	4	4	4	4	..	..	566 20	
13	...	33	33	33	33	33	33	33	13	33	....	....	.....	....	....	....	....	..	..	580 00	2,527 22
....	...	31	31	31	31	14	.....	.....	.....	31	....	....	31	....	....	....	....	..	..	580 00	
2	...	12	12	12	12	6	4	4	2	12	....	....	.....	....	....	....	....	..	..	1,056 90	313 05
....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	306 00	.....
5	...	26	26	26	26	20	16	16	5	26	....	....	.....	....	....	....	....	..	..	580 00	700 00
5	...	28	28	28	28	17	15	15	5	28	....	....	28	....	....	....	....	..	..	580 00	947 77
10	...	26	26	26	26	18	14	14	10	26	....	....	26	....	....	....	....	..	..	580 00	.....
4	...	23	23	23	23	13	11	11	4	.....	....	....	.....	....	....	....	....	..	..	580 00	519 21
2	...	6	6	6	6	5	4	4	2	6	....	....	6	....	....	....	....	..	..	1,020 00	.....
2	...	11	11	11	11	2	2	2	2	11	....	....	.....	....	....	....	....	..	..	944 00	.....
....	...	9	9	9	9	4	1	1	....	9	....	....	.....	....	....	....	....	..	..	1,140 00	.....
4	...	20	20	20	20	11	7	7	4	20	....	....	.....	....	....	....	....	..	..	913 00	.....
4	...	11	11	11	11	8	4	4	4	11	....	....	11	....	....	....	....	..	..	1,106 00	175 23
12	...	27	27	27	27	27	27	27	12	27	....	....	27	....	....	....	....	..	..	580 00	2,796 74
....	...	36	36	36	36	10	.....	.....	.....	36	....	....	36	....	....	....	....	..	..	580 00	
6	...	20	20	20	20	20	20	20	6	20	....	....	.....	....	....	....	....	..	..	1,140 00	465 56
....	...	39	39	39	39	8	.....	.....	.....	39	....	....	39	....	....	....	....	..	..	960 00	
3	...	13	13	13	13	10	9	9	3	13	....	....	13	....	....	....	....	..	..	580 00	429 66
....	...	11	11	11	11	7	2	2	....	11	....	....	.....	....	....	....	....	..	..	475 80	340 45
14	...	22	22	22	22	22	22	22	14	22	....	....	.....	....	....	....	....	..	..	580 00	.....
....	...	22	22	22	22	9	.....	.....	.....	22	....	....	.....	....	....	....	....	..	..	580 00	.....
13	5	18	18	18	18	13	18	13	18	18	....	....	.....	6	6	3	4	5	1	580 00	
10	...	24	24	24	24	24	24	24	10	24	....	....	24	....	....	....	....	..	..	580 00	
....	...	33	33	33	33	33	17	17	....	33	....	....	33	....	....	....	....	..	..	577 25	9,751 68
....	...	29	29	29	29	7	.....	.....	.....	29	....	....	29	....	....	....	....	..	..	580 00	
....	...	24	24	24	24	.....	.....	.....	.....	24	....	....	24	....	....	....	....	..	..	557 90	
8	...	39	39	39	39	24	18	18	8	39	....	....	39	....	....	....	....	..	..	580 00	1,270 83
2	...	12	12	12	12	5	5	5	2	12	....	....	.....	....	....	....	....	..	..	1,020 00	408 63
1	...	20	20	20	20	7	4	4	1	20	....	....	20	....	....	....	....	..	..	580 00	.....
5	...	29	29	29	29	16	11	11	5	29	....	....	.....	....	....	....	....	..	..	566 80	835 14
3	...	22	22	22	22	22	15	15	3	22	....	....	22	....	....	....	....	..	..	580 00	3,396 76
....	...	24	24	24	24	.....	.....	.....	.....	24	....	....	24	....	....	....	....	..	..	348 00	
....	...	10	10	10	10	6	.....	.....	.....	10	....	....	.....	....	....	....	....	..	..	950 85	.....
5	...	14	14	14	14	11	7	7	5	.....	....	....	14	....	....	....	....	..	..	998 45	209 82
....	...	11	11	11	11	7	5	5	....	11	....	....	.....	....	....	....	....	..	..	565 35	.....
....	...	15	15	15	15	6	4	4	...	15	....	....	.....	....	....	....	....	..	..	1,129 50	.....
3	...	11	11	11	11	9	6	6	3	11	....	....	.....	....	....	....	....	..	..	1,020 00	149 00
....	...	13	13	13	13	6	4	4	....	13	....	....	13	....	....	....	....	..	..	155 45	.....

RURAL AND ASSISTED SCHOOLS.

School.	Teacher.	Certificate.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Osland	Miss G. Moses	3rd Class	1,100	126	16	9	7	13.65	4	3	....	3	2
Osoyoos	Miss G. E. Stewart	2nd "	960	180	11	6	5	5.42	1	....	....	4	3
Otter Point	Miss K. McCallum	2nd "	900	176	20	11	9	13.70	3	4	2	5	5
Outlook	Miss A. J. Spence	Temporary	1,200	189	25	12	13	14.11	12	2	....	9	2
Oyama 1st Division	Miss M. L. Elliott	1st Class	1,100	184½	37	22	15	31.53	....	....	....	....	17
" 2nd "	Miss V. M. Corbett	2nd "	1,000	185	32	17	15	25.63	11	5	10	6	....
Oyster	Miss W. B. Smythe	2nd "	960	182	21	8	13	19.69	1	1	1	4	4
Oyster, North	Miss E. Carmichael	3rd "	1,020	185½	36	21	15	24.18	12	....	9	2	5
Pacheiqua	A. M. Greig	3rd "	960	191	13	8	5	6.60	1	3	2	3	2
Pacific	Miss M. Tomkins	2nd "	1,050	189	11	5	6	6.93	2	1	....	3	3
Parks Siding	Miss A. F. Cluff	3rd "	1,000	188	10	4	6	7.73	....	2	3	1	3
Parksville, 1st Division	G. O'Connor	2nd "	1,140	185	19	7	12	17.07	....	....	....	....	3
" 2nd "	Miss A. Lyche	1st "	960	189	26	13	13	24.46	12	2	5	6	1
Parson	Miss F. E. Adair	2nd "	960	182½	9	5	4	6.12	....	3	1	3	1
Pass Creek	Mrs. G. McCuaig	2nd "	1,200	178½	42	29	13	20.53	17	....	12	7	6
Passmore	Mrs. J. Sayer	3rd "	960	140	10	3	7	8.58	3	....	1	1	5
Paxton Valley	Miss E. Piggott	2nd "	960	184½	9	3	6	5.66	3	1	1	....	1
Pemberton Meadows	Miss L. J. Ford	2nd "	900	183	13	6	7	10.57	..	2	3	....	2
Pemberton Range	Miss S. Mason	Academic	960	186	12	3	9	8.55	2	1	4	....	3
Pender Harbour	Miss G. Curwen	1st Class	960	190	15	8	7	7.96	5	4	....	2	3
Pender Island	Miss I. B. Tait	2nd "	900	187½	32	19	13	19.58	8	6	....	5	7
Penny	Miss H. Thomas	Temporary	1,080	104	10	6	4	6.80	4	1	....	....	5
Perry Siding	H. Perkins	"	1,080	186	21	9	12	17.13	4	....	3	1	5
Popcum	Miss G. A. Kion	Academic	960	185	22	10	12	16.62	4	1	3	2	7
Port Alice, 1st Division	J. W. Young	"	1,200	186	33	12	21	20.76	....	....	....	....	20
" 2nd "	Miss D. E. Jones	2nd Class	1,020	172	26	15	11	25.86	7	5	12	2	....
Port Clements	Miss A. Cawthorne	Temporary	1,140	182½	18	10	8	15.12	2	3	3	1	3
Port Hardy	V. A. Horton	Temporary	1,020	167	23	12	11	10.44	2	....	4	3	6
Port Renfrew	Miss M. L. May	3rd Class	1,000	182	8	8	.....	6.66	1	1	2	...	2
Pouce Coupe	Denis Clarke	3rd "	1,320	183	20	11	9	9.62	6	....	3	5	5
Pouce Coupe, Central	M. C. Simmons	2nd "	1,320	195	12	5	7	10.88	3	2	1	3	2
Pouce Coupe, North	Miss C. E. Braden	Temporary	1,320	192	24	13	11	14.38	7	3	....	3	8
Powell River, 1st Division	F. L. Murphy	Academic	2,500	188	12	4	8	9.93	....	....	....	....	....
" 2nd "	Miss L. McIvor	1st Class	1,500	188	40	15	25	34.90	....	....	....	....	....
" 3rd "	Miss G. B. Brett	2nd "	1,080	188	49	28	21	35.42	31	18	....	....	....
" 4th "	Miss F. D. Lynch	3rd "	1,080	178	37	25	12	33.10	....	....	15	22	....
" 5th "	Miss C. Munro	3rd "	1,080	178	42	21	21	37.68	....	....	42	....	....
" 6th "	Miss E. A. O'Hearn	2nd "	1,080	178	43	20	23	29.70	..	....	....	....	43
" 7th "	Miss G. Allen	3rd "	1,080	178	45	18	27	36.03	....	....	....	16	29
Princeton, 1st Division	C. Cornish	1st "	1,800	189	17	10	7	16.03	....	....	....	....	....
" 2nd "	Miss E. M. Bentley	2nd "	1,200	189	37	14	23	33.21	....	....	....	....	37
" 3rd "	Miss E. F. Carlson	2nd "	1,200	189	36	25	11	33.16	....	....	15	21	....
" 4th "	Miss T. Nelson	2nd "	1,200	189	31	21	10	30.89	17	14	....	....	....
" 5th "	Miss A. Johnston	2nd "	1,200	117	26	12	14	19.39	....	....	....	....	....
Princeton, East	Miss K. Graham	2nd "	1,050	189	19	10	9	12.97	5	3	2	3	6
Procter, 1st Division	Miss H. G. Johnson	1st "	1,100	187	16	6	10	13.65	....	....	....	....	....
" 2nd "	Miss I. M. Anderson	3rd "	960	187	37	21	16	29.64	4	8	8	3	14
Puntledge	Miss M. Marshall	2nd "	960	187	23	15	8	20.19	5	5	6	2	3
Qualicum Beach, 1st Div.	Miss B. McCall	1st "	1,140	182	27	12	15	23.09	....	....	....	....	15
" 2nd "	Miss E. O'Hearn	3rd "	960	182	36	19	17	25.12	17	3	4	12	....
Qualicum, Little	Miss M. G. Pottinger	2nd "	960	187	19	9	10	13.14	....	....	4	4	11
Quatsino	N. O. Keith	3rd "	1,080	188	27	17	10	22.12	3	6	....	3	7
Queen Charlotte	Miss M. Hardwick	Academic	1,140	172	19	6	13	13.57	4	4	3	1	6
Quesnel, 1st Division	G. Atkinson	"	1,800	184	14	8	6	8.79	....	....	....	....	....
" 2nd "	Miss E. Sparling	2nd Class	1,500	189	28	13	15	23.67	....	....	....	....	17
" 3rd "	Miss M. Ratledge	2nd "	1,250	180	33	12	21	25.34	11	12	....	10	....
Raft River	Miss C. O'Connell	3rd "	1,020	182½	11	5	6	7.77	....	3	2	3	....
Red Gap	Miss M. McGinley	2nd "	960	183	16	8	8	14.38	6	....	1	3	5
Red Lake	Miss W. Cruikshank	Temporary	980	172	5	3	2	3.91	1	1	2	1	....
Reiswig	Miss W. Steele	"	960	183½	3	3	.....	2.51	....	....	....	1	1
Renata	J. Gray	1st Class	1,080	187	23	14	9	18.30	3	2	2	6	5
Retreat Cove	Miss K. Walker	3rd "	900	106	7	3	4	5.27	....	1	....	1	1
Rexmount	C. Somerville	3rd "	1,100	65	7	2	5	6.09	3	....	....	....	2
Riondel	Miss C. Prefontaine	3rd "	1,020	189	16	8	8	13.19	3	....	2	3	6
Roberts Creek, East	J. G. Whitworth	3rd "	960	190	23	12	11	18.47	....	4	3	8	5
Robin's Range	Miss M. Atkinson	2nd "	1,050	187	25	12	13	20.15	....	5	2	5	7
Robson	Miss E. Green	2nd "	1,060	183	22	14	8	17.69	2	....	....	7	6
Rock Bay	Miss C. V. Joy	2nd "	1,020	186	9	4	5	8.46	1	....	4	....	2
Rock Creek	Miss G. Griffith	1st "	1,140	187	31	20	11	19.62	7	4	3	8	8
Rock Mountain	Miss V. Rock	3rd "	1,080	163	17	12	5	10.35	4	....	3	2	5
Rocky Point	Miss M. Houston	3rd "	840	185½	6	4	2	5.56	3	....	1	1	1
Roe Lake	Miss B. van Velzer	Temporary	1,100	188	10	3	7	5.79	3	....	2	3	1
Roosville	L. Manuel	"	1,100	152½	9	3	6	6.26	1	1	....	3	2
Rosebery	Miss M. Redpath	1st Class	1,020	188	9	4	5	8.42	1	2	1	1	2
Rose Hill	Miss M. Barbour	Temporary	1,000	177	10	6	4	7.62	...	3	2	2	....

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.	$ cts.	$ cts.
4	...	16	16	16	16	9	6	6	4	16	....	....	16	....	....	....	....	..	..	795 00	100 40
3	...	11	11	11	11	10	6	6	3	11	....	....	.....	....	....	....	....	..	..	960 00	.....
1	...	20	20	20	20	11	6	6	1	20	....	....	.....	....	....	....	....	..	..	574 00	631 57
....	...	25	25	25	25	11	2	2	....	....	....	....	.....	....	....	....	....	..	..	1,200 00	.....
20	...	37	37	37	37	37	37	37	20	37	....	....	37	....	....	....	....	..	..	577 25	1,940 00
....	...	32	32	32	32	6	....	....	....	32	....	....	32	....	....	....	....	..	..	577 25	
10	...	21	21	21	21	18	14	14	10	21	....	....	.....	....	....	....	....	..	..	955 20	296 53
8	...	36	36	36	36	15	13	13	8	36	....	....	.....	....	....	....	....	..	..	1,020 00	.....
2	...	13	13	13	13	7	4	4	2	13	....	....	13	....	....	....	....	..	..	960 00	28 75
2	...	11	11	11	11	8	5	5	2	11	....	....	.....	....	....	....	....	..	..	1,050 00	109 15
1	...	10	10	10	10	5	4	4	1	10	....	....	.....	....	....	....	....	..	..	1,000 00	88 90
12	4	19	19	19	19	15	15	15	16	19	....	....	19	4	4	4	4	3	3	1,140 00	799 11
....	...	26	26	26	26	12	1	1	....	26	....	....	.....	....	....	....	....	..	..	960 00	
1	...	9	9	9	9	5	2	2	1	9	....	....	.....	....	....	....	....	..	..	942 85	.....
....	...	42	42	42	42	13	6	6	....	42	....	....	.....	....	....	....	....	..	..	1,200 00	.....
....	...	10	10	10	10	6	5	5	....	10	....	....	10	....	....	....	....	..	..	719 55	92 01
3	...	9	9	9	9	4	4	4	3	9	....	....	.....	....	....	....	....	..	..	946 65	.....
6	...	13	13	13	13	8	8	8	6	13	....	....	13	....	....	....	....	..	..	900 00	.....
2	...	12	12	12	12	5	5	5	2	12	....	....	12	....	....	....	....	..	..	954 35	142 75
1	...	15	15	15	15	6	4	4	1	15	....	....	15	....	....	....	....	..	..	960 00	664 15
6	...	32	32	32	32	18	13	13	6	32	....	....	.....	....	....	....	....	..	..	577 10	1,183 52
....	...	10	10	10	10	5	5	5	...	10	....	....	10	....	....	....	....	..	..	586 30	97 50
8	..	21	21	21	21	14	13	13	8	21	....	....	.....	....	....	....	....	..	..	1,068 95	164 58
5	...	22	22	22	22	14	12	12	5	22	....	....	22	....	....	....	....	..	..	960 00	113 00
10	3	33	33	33	33	30	30	30	13	33	....	....	.....	3	3	3	3	..	..	1,194 00	211 20
....	...	26	26	26	26	2	.....	.....	.....	26	....	....	.....	....	....	....	....	..	..	1,014 90	
5	1	18	18	18	18	10	9	9	6	18	....	....	.....	1	1	1	...	1	1	1,140 00	611 36
8	...	23	23	23	23	17	14	14	8	23	....	....	.....	....	....	....	....	..	..	952 00	.....
2	...	8	8	8	8	4	4	4	2	8	....	....	.....	....	....	....	....	..	..	1,000 00	73 89
1	...	20	20	20	20	11	6	6	1	20	....	....	20	....	....	....	....	..	..	1,320 00	289 61
1	...	12	12	12	12	6	3	3	1	12	....	....	.....	....	....	....	....	..	..	1,320 00	448 55
3	...	24	24	24	24	14	14	14	3	24	....	....	24	....	....	....	....	..	..	1,320 00	.....
....	12	12	8	....	8	.....	.....	.....	12	12	....	....	.....	12	12	12	12	4	4	580 00	
40	...	40	40	40	40	40	40	40	40	40	....	....	.....	....	....	....	....	..	..	580 00	
....	...	49	49	49	49	.....	.....	.....	....	49	....	....	49	....	....	....	....	..	..	580 00	
....	...	37	37	37	37	22	.....	.....	.....	.....	....	....	.....	....	....	....	....	..	..	580 00	20,082 31
..	...	42	42	42	42	.....	.....	.....	....	42	....	....	42	....	....	....	....	..	..	580 00	
....	...	43	43	43	43	43	43	43	....	43	....	....	.....	....	....	....	....	..	..	522 00	
....	...	45	45	45	45	45	29	29	....	45	....	....	.....	....	....	....	....	..	..	522 00	
....	17	17	11	.....	11	.....	.....	.....	17	.....	....	....	.....	17	17	17	17	6	6	580 00	
....	...	37	37	37	37	37	37	37	...	37	....	....	37	....	....	....	....	..	..	580 00	
....	...	36	36	36	36	21	.....	.....	....	36	....	....	.....	....	....	....	....	..	..	580 00	6,459 06
....	...	31	31	31	31	.....	.....	.....	....	31	....	....	31	....	....	....	....	..	..	580 00	
26	...	26	26	26	26	26	26	26	26	26	....	....	.....	....	....	....	....	..	..	348 00	
....	...	19	19	19	19	9	6	6	....	19	....	....	.....	....	....	....	....	..	..	1,050 00	.....
13	3	16	16	13	16	13	16	13	16	16	....	....	.....	3	3	3	3	..	..	580 00	2,041 30
....	...	37	37	37	37	17	14	14	....	37	....	....	.....	....	....	....	....	..	..	580 00	
2	...	23	23	23	23	7	5	5	2	23	....	....	.....	....	....	....	....	..	..	960 00	.....
12	...	27	27	27	27	27	27	27	12	27	....	....	.....	....	....	....	....	..	..	1,129 10	667 99
....	...	36	36	36	36	12	.....	.....	....	36	....	....	.....	....	....	....	....	..	..	950 85	
....	...	19	19	19	19	15	11	11	....	19	....	....	18	....	....	....	....	..	..	954 95	121 65
8	...	27	27	27	27	18	15	15	8	27	....	....	.....	....	....	....	....	..	..	1,080 00	175 15
1	...	19	19	19	19	8	7	7	1	19	....	....	19	....	....	....	....	..	..	1,140 00	412 03
10	4	14	14	10	12	10	12	10	14	14	....	....	.....	4	4	4	4	4	4	580 00	
11	...	28	28	28	28	28	28	28	11	28	....	....	.....	....	....	....	....	..	..	580 00	3,768 82
....	...	33	33	33	33	10	.....	.....	....	33	....	....	.....	....	....	....	....	..	..	580 00	
3	...	11	11	11	11	6	3	3	3	11	....	....	.....	....	....	....	....	..	..	997 35	262 05
1	...	16	16	16	16	9	6	6	1	16	....	....	.....	....	....	....	....	..	..	918 00	1,373 92
....	...	5	5	5	5	1	.....	.....	.....	5	....	....	.....	....	....	....	....	..	..	980 00	31 03
1	...	3	3	3	3	3	2	2	1	3	3	....	.....	....	....	....	....	..	..	960 00	675 68
5	...	23	23	23	23	16	10	10	5	23	....	....	23	....	....	....	....	..	..	1,080 00	138 86
4	...	7	7	7	7	6	5	5	4	7	....	....	.....	....	....	....	....	..	..	492 65	.....
2	...	7	7	7	7	4	4	4	2	7	....	....	.....	....	....	....	....	..	..	368 90	.....
2	...	16	16	16	16	11	8	8	2	16	....	....	16	....	....	....	....	..	..	1,020 00	.....
3	...	23	23	23	23	16	8	8	3	23	...	...	23	....	....	....	....	..	..	960 00	270 08
6	...	25	25	25	25	18	13	13	6	25	....	....	.....	....	....	....	....	..	..	1,041 25	279 85
7	...	22	22	22	22	20	13	13	7	22	....	....	22	....	....	....	....	..	..	580 00	1,021 50
2	...	9	9	9	9	4	4	4	2	9	....	....	.....	....	....	....	....	..	..	1,020 00	60 55
1	...	31	31	31	31	17	9	9	1	31	....	....	.....	....	....	....	....	..	..	1,140 00	166 55
3	...	17	17	17	17	10	8	8	3	17	....	....	17	....	....	....	....	..	..	966 60	200 00
....	...	6	6	6	6	2	1	1	....	6	....	....	.....	....	....	....	....	..	..	580 00	479 00
1	...	10	10	10	10	5	2	2	1	10	10	....	.....	....	....	....	....	..	..	1,100 00	.....
2	...	9	9	9	9	7	4	4	2	9	....	....	.....	....	....	....	....	..	..	855 50	.....
2	...	9	9	9	9	5	4	4	2	9	....	....	.....	....	....	....	....	..	..	1,020 00	23 75
3	...	10	10	10	10	5	3	3	3	10	...	....	10	....	....	....	....	..	..	566 20	403 65

RURAL AND ASSISTED SCHOOLS.

School.	Teacher.	Certificate.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Rose Lake	Miss M. McDonald	3rd Class	1,200	162	13	7	6	9.33	3	2	2	1	3
Round Lake	Miss V. Davis	2nd "	1,050	79	15	9	6	10.29	5	....	1	2	3
Round Top	A. W. Morrow	2nd "	1,020	184½	11	7	4	7.08	4	1	....	....	2
Royston	Miss M. Gallivan	1st "	960	172½	24	9	15	16.52	3	3	....	5	8
Rutland, 1st Division	Miss E. G. Mann	Academic	1,500	184	23	14	9	19.25	....	....	....	....	....
" 2nd "	Miss M. Bruce	3rd Class	1,220	183	34	15	19	30.47	....	....	....	....	28
" 3rd "	Miss L. D. Turner	Temporary	1,080	183	37	17	20	31.98	12	6	4	15	....
Saanich, North, 1st Div.	Miss B. Few	2nd Class	1,200	189	32	15	17	28.75	....	....	....	....	20
" 2nd "	Miss A. McKinnon	2nd "	900	189	37	23	14	28.99	3	15	12	7	....
Sahtlam	Miss B. Muir	2nd "	960	188	14	6	8	9.45	5	....	....	1	5
St. Elmo	Mrs. E. A. Postill	2nd "	960	187½	21	10	11	13.33	7	....	1	2	6
Salmo, 1st Division	T. L. Davies	Academic	1,400	188	25	14	11	18.70	....	....	....	....	14
" 2nd "	Miss I. E. Pitts	2nd Class	1,100	188½	19	12	7	14.11	6	4	3	6	....
Salmon Bench	Miss U. M. Copeland	2nd "	960	175	16	5	11	10.84	3	1	2	2	6
Salmon Valley	Miss A. Reekie	3rd "	1,020	173	11	5	6	7.01	2	1	....	2	4
Sandon, 1st Division	J. T. Boyes	2nd "	1,500	182	16	9	7	15.66	....	....	....	....	6
" 2nd "	Miss W. O. Alexander	3rd "	1,000	188	21	13	8	20.69	7	2	5	7	....
Sandspit	Miss R. A. Maloney	3rd "	1,140	182	21	5	16	18.53	....	2	5	6	3
Sandwick	Miss N. E. Ault	2nd "	1,080	189	30	17	13	21.48	11	4	3	2	4
Saskatoon Creek	Miss M. Buchanan	2nd "	1,320	194½	12	4	8	5.34	1	1	....	2	4
Saturna Island	Miss E. Tarbuck	Academic	900	185	13	5	8	10.04	2	3	2	....	2
Savary Island	Miss E. E. Roberts	Temporary	960	184	9	4	5	8.42	....	1	....	....	3
Savona	Miss F. I. George	3rd Class	900	178½	21	11	10	18.62	2	....	6	4	7
Savona Road	Miss J. M. Ross	2nd "	940	175	8	3	5	6.35	....	1	1	....	4
Sayward	Miss H. E. MacLeod	2nd "	1,020	184	21	10	11	15.93	....	2	2	3	5
Seechelt	Miss F. E. Cliff	3rd "	960	187	23	10	13	17.60	4	2	6	5	4
Seton Lake Creek	Miss K. Seville	1st "	1,080	188	15	13	2	12.39	2	1	1	2	2
Seton Portage	Miss D. G. Christie	1st "	960	167½	8	4	4	6.04	....	1	2	2	2
Seventy-mile House	A. C. Okon	2nd "	1,000	157	9	4	5	6.23	2	....	2	....	2
Seymour Arm	A. H. Hooper	3rd "	1,080	183	11	5	6	7.18	3	....	....	1	3
Shawnigan Lake	Miss H. J. Blake	2nd "	1,020	188	43	24	19	27.69	9	3	1	10	10
Shirley	Miss G. L. Ross	3rd "	900	177	9	6	3	8.06	1	2	2	2	2
Shoreacres	Miss L. E. Oates	3rd "	1,020	184	15	8	7	8.43	3	3	2	2	5
Shuswap	Miss O. E. Ozburn	3rd "	900	188	18	9	9	12.09	7	....	3	3	5
Shuswap, North	Miss S. Reay	1st "	1,020	189	22	11	11	20.58	3	....	7	2	5
Shutty Bench	Miss M. E. Orman	2nd "	1,020	189	16	10	6	11.82	4	1	4	3	2
Sicamous	Miss E. Blackberg	2nd "	1,080	185½	10	1	9	8.74	2	....	4	....	2
Sidney, 1st Division	D. Hoyle	Academic	2,000	189	23	13	10	18.61	....	....	....	....	....
" 2nd "	W. Jones	1st Class	1,200	189	37	17	20	31.42	....	....	....	....	21
" 3rd "	Miss F. D. Christie	2nd "	1,000	189	39	19	20	35.01	....	....	5	34	....
" 4th "	Miss H. C. Olson	2nd "	1,000	189	41	18	23	31.89	27	14	....	....	....
Silver Creek	G. H. Stocks	2nd "	1,100	188½	21	15	6	14.80	3	3	4	....	3
Silverton, 1st Division	J. E. King	1st "	1,650	187	22	8	14	20.46	....	....	....	....	....
" 2nd "	Miss M. D. Armstrong	2nd "	1,150	187½	36	13	23	27.46	....	....	....	14	22
" 3rd "	Miss A. M. Roberts	1st "	1,100	187½	27	14	13	24.37	13	6	8	....	....
Simpson	S. A. Flatt	3rd "	1,200	188	21	12	9	16.78	1	....	7	3	3
Sinclair	Miss B. Butler	2nd "	960	178	11	9	2	6.68	1	1	1	2	4
Sirdar	Miss G. D. Stocken	2nd "	1,020	183	16	12	4	10.73	5	....	1	2	3
Sisters Creek	Miss V. L. Ratledge	2nd "	1,140	185	15	11	4	11.10	4	....	1	4	2
Skidegate	Miss H. Graham	2nd "	1,100	100	6	1	5	3.52	2	....	....	3	1
Skookumchuck	Miss J. L. Kask	2nd "	960	181	10	7	3	6.91	2	....	1	1	1
Slocan Junction	Miss I. W. Parker	1st "	1,080	189	26	12	14	24.54	1	4	8	5	2
Smithers, 1st Division	C. R. Elsey	Academic	2,000	184	22	13	9	17.63	....	....	....	....	....
" 2nd "	Miss C. MacNairn	2nd Class	1,200	182½	31	14	17	26.57	....	....	....	7	24
" 3rd "	Miss H. I. Sangster	2nd "	1,200	152	46	26	20	32.05	27	2	17	....	....
Soda Creek	L. H. Baillie	Temporary	1,140	140	21	10	11	20.61	2	2	3	5	6
Solsqua	Miss H. L. Newhouser	3rd Class	1,020	185	17	9	8	12.92	7	....	2	2	4
Sooke, 1st Division	Miss M. H. McKinnon	2nd "	1,260	182	39	13	26	25.07	....	....	....	11	13
" 2nd "	Miss E. M. Giberson	3rd "	1,080	175	30	17	13	24.52	18	....	7	5	....
Sooke, North	Miss G. A. Hawkswood	2nd "	900	184	12	3	9	11.34	1	....	3	2	4
Sorrento	Miss M. M. Garraway	2nd "	960	178	18	13	5	13.27	4	....	1	2	4
Spencer	Miss M. Smith	2nd "	1,200	185	37	28	9	22.65	9	12	13	3	....
Spences Bridge	Miss N. Heady	2nd "	800	190	20	12	8	13.50	7	1	2	2	2
Springhouse	Miss V. M. Price	2nd "	1,200	188	13	7	6	6.93	4	....	1	3	5
Sproat	M. B. Hyham	2nd "	1,000	184	13	7	6	10.59	1	....	1	1	4
Squam Bay	Miss A. A. Cousins	3rd "	1,050	184	19	9	10	17.44	....	4	2	....	7
Squamish, 1st Division	J. M. Orr	2nd "	1,190	190	31	13	18	30.27	....	....	....	....	14
" 2nd "	Miss M. Mellish	3rd "	950	185	37	24	13	32.08	9	4	8	16	....
Squirrel Cove	Mrs. E. Procter	1st "	1,000	186	11	6	5	7.13	4	1	1	....	1
Stewart	Miss D. G. Thompson	3rd "	1,200	178	37	15	22	28.28	6	....	1	5	8
Stillwater	Miss D. I. Powell	3rd "	960	105½	12	7	5	8.61	6	1	....	1	2
Sullivan Valley	Miss I. M. Addison	3rd "	960	162½	9	5	4	6.16	2	3	1	1	2
Summit Lake	Mrs. L. H. Robinson	2nd "	1,020	190	14	6	8	11.63	3	1	3	1	2
Sunnybrae	Miss F. R. Mackenzie	2nd "	960	179	10	4	6	8.08	2	....	....	2	2
Sunnyside	Miss L. J. Owen	1st "	960	172½	15	9	6	11.57	3	4	3	1	2

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																						Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.				
																						$ cts.	$ cts.
2	...	13	13	13	13	6	5	5	2	13	....	....	.....	....	....	....	....	..	..			1,023 15	.....
4	...	15	15	15	15	9	7	7	4	15	....	....	.....	....	....	....	....	..	..			451 50	.....
4	...	11	11	11	11	6	6	6	4	11	4	2	.....	....	....	....	....	..	..			995 70	125 50
5	...	24	24	24	24	18	13	13	5	24	....	....	.....	....	....	....	....	..	..			960 00	1,671 62
16	7	23	20	16	20	16	20	16	23	23	14	7	.....	7	7	7	7	3	3			.....	}
6	...	34	34	34	34	34	34	34	6	34	15	19	34	....	....	....	....	..	..			2,311 75	} 4,978 37
....	...	37	37	37	37	15	.....	.....	.....	.....	....	....	.....	....	....	....	....	..	..			.....	}
12	...	32	32	32	32	32	32	32	12	32	....	....	.....	....	....	....	....	..	..			580 00	} 1,921 01
....	...	37	37	37	37	7	.....	.....	....	37	...	....	.....	....	....	....	....	..	..			580 00	}
3	...	14	14	14	14	9	8	8	3	14	....	....	.....	....	....	....	....	..	..			960 00	156 23
5	...	21	21	21	21	13	11	11	5	21	....	....	.....	....	....	....	....	..	..			960 00	153 84
11	...	25	25	25	25	25	25	25	11	25	....	....	.....	....	....	....	....	..	..			580 00	}
....	...	19	19	19	19	6	.....	.....	....	19	....	..	19	....	....	....	....	..	..			580 00	} 2,473 65
2	...	16	16	16	16	10	8	8	2	16	....	....	.....	....	....	....	....	..	..			954 65	50 05
2	...	11	11	11	11	8	6	6	2	11	....	....	.....	....	....	....	....	..	..			935 00	73 77
10	...	16	16	16	16	16	16	16	10	16	....	....	.....	....	....	....	....	..	..			580 00	.....
....	...	21	21	21	21	7	.....	.....	....	21	....	....	21	....	....	....	....	..	..			580 00	.....
5	...	21	21	21	21	14	8	8	5	21	5	16	21	....	....	....	....	..	..			1,140 00	131 29
6	...	30	30	30	30	12	10	10	6	30	....	....	30	....	....	....	....	..	..			1,080 00	.....
4	...	12	12	12	12	10	8	8	4	12	....	....	.....	....	....	....	....	..	..			1,320 00	128 03
4	...	13	13	13	13	6	6	6	4	13	....	....	.....	....	....	....	....	..	..			877 50	235 66
5	...	9	9	9	9	8	8	8	5	9	....	....	.....	....	....	....	....	..	..			928 00	.....
2	...	21	21	21	21	13	9	9	2	21	....	....	.....	....	....	....	....	..	..			577 25	442 15
2	...	8	8	8	8	6	6	6	2	8	..	....	8	..	....	....	....	..	..			940 00	.....
9	...	21	21	21	21	17	14	14	9	21	....	....	.....	....	....	....	....	..	..			1,015 15	59 17
2	...	23	23	23	23	11	6	6	2	23	....	....	.....	....	....	....	....	..	..			960 00	639 62
7	...	15	15	15	15	11	9	9	7	15	....	....	.....	....	....	....	....	..	..			1,080 00	49 40
1	...	8	8	8	8	5	3	3	1	8	....	....	.....	....	....	....	....	..	..			914 30	.....
3	...	9	9	9	9	5	5	5	3	9	....	....	9	....	....	....	....	..	..			829 70	.....
4	...	11	11	11	11	8	7	7	4	11	....	....	.....	....	....	....	....	..	..			1,074 60	83 76
10	...	43	43	43	43	30	20	20	10	43	....	....	.....	....	....	....	....	..	..			1,020 00	608 43
....	...	9	9	9	9	4	2	2	....	9	....	3	.....	....	....	....	....	..	..			900 00	157 90
...	...	15	15	15	15	7	5	5	....	15	....	....	15	....	....	....	....	..	..			1,020 00	116 15
....	...	18	18	18	18	8	5	5	....	18	....	4	18	....	....	....	....	..	..			580 00	787 42
5	...	22	22	22	22	12	10	10	5	22	....	....	.....	....	....	....	....	..	..			1,020 00	.....
2	...	16	16	16	16	7	4	4	2	16	....	....	.....	....	....	....	....	..	..			1,020 00	167 45
2	...	10	10	10	10	4	4	4	2	10	....	....	.....	....	....	....	....	..	..			1,080 00	189 60
20	3	23	23	20	23	20	23	20	23	23	....	....	23	....	....	....	....	..	..			580 00	}
16	...	37	37	37	37	37	37	37	16	37	....	....	37	....	....	....	....	..	..			580 00	} 4,260 11
....	...	39	39	39	39	34	.. ..	.....	....	39	....	20	.....	....	....	....	....	..	..			580 00	}
....	...	41	41	41	41	.....	.....	.....	.....	.....	....	....	41	....	....	....	....	..	..			580 00	}
8	...	21	21	21	21	11	11	11	8	21	....	....	.....	....	....	....	....	..	..			580 00	811 02
15	7	22	21	15	21	15	21	15	22	22	....	....	.....	7	7	7	7	1	1			580 00	}
....	...	36	36	36	36	36	22	22	....	36	....	....	36	....	....	....	....	..	..			580 00	} 3,047 62
....	...	27	27	27	27	.....	... .	.....	.....	27	....	....	.....	....	....	....	....	..	..			580 00	}
7	...	21	21	21	21	13	10	10	7	21	....	....	.....	....	....	....	....	..	..			580 00	1,083 61
2	...	11	11	11	11	8	6	6	2	11	....	....	.....	....	....	....	....	..	..			912 00	32 92
5	...	16	16	16	16	10	8	8	5	16	....	....	16	....	....	....	....	..	..			990 85	246 83
4	...	15	15	15	15	10	6	6	4	15	....	....	15	....	....	....	....	..	..			1,114 65	.....
....	...	6	6	6	6	4	1	1	....	6	....	....	.....	....	....	....	....	..	..			629 45	64 20
5	...	10	10	10	10	7	6	6	5	10	....	....	.....	....	....	....	....	..	..			938 65	7 05
6	...	26	26	26	26	13	8	8	6	26	...	....	26	....	....	....	....	..	..			580 00	1,256 77
22	...	22	22	22	22	22	22	22	22	22	....	....	.....	....	....	....	....	..	..			580 00	}
....	...	31	31	31	31	31	24	24	....	31	....	....	.....	....	....	....	....	..	..			580 00	} 5,379 12
....	...	46	46	46	46	.....	.....	.....	.....	46	....	....	.....	....	....	....	....	..	..			479 25	}
3	...	21	21	21	21	14	9	9	3	21	....	....	.....	....	....	....	....	..	..			1,140 00	119 68
2	...	17	17	17	17	8	6	6	2	17	....	....	.....	....	....	....	....	..	..			978 00	143 55
15	...	39	39	39	39	39	28	28	15	39	....	....	.....	....	....	....	....	..	..			580 00	}
....	...	30	30	30	30	5	.....	.....	.....	30	....	....	.....	....	....	....	....	..	..			580 00	} 1,707 86
2	...	12	12	12	12	8	6	6	2	12	....	....	.....	....	....	....	....	..	..			900 00	.....
7	...	18	18	18	18	13	11	11	7	18	..	....	.....	....	....	....	....	..	..			906 65	155 36
....	...	37	37	37	37	3	... .	.....	.....	37	....	....	.....	....	....	....	....	..	..			1,200 00	.....
6	...	20	20	20	20	10	8	8	6	20	....	....	.....	....	....	....	....	..	..			580 00	312 55
....	...	13	13	13	13	8	5	5	....	13	....	....	.....	....	....	....	....	..	..			1,200 00	305 00
6	...	13	13	13	13	11	10	10	6	13	....	....	.....	....	....	....	....	..	..			976 20	173 56
6	...	19	19	19	19	13	13	13	6	19	..	....	.....	....	....	....	....	..	..			1,045 00	89 95
17	...	31	31	31	31	31	31	31	17	31	....	....	.....	....	....	....	....	..	..			580 00	}
....	...	37	37	37	37	16	.....	.....	....	37	....	....	.....	....	....	....	....	..	..			580 00	} .....
4	...	11	11	11	11	5	5	5	4	11	....	....	.....	....	....	....	....	..	..			972 00	33 50
17	...	37	37	37	37	30	25	25	17	37	7	12	37	....	....	....	....	..	..			1,181 35	1,442 78
2	...	12	12	12	12	5	4	4	2	12	....	....	.....	....	....	....	....	..	..			576 00	491 70
....	...	9	9	9	9	3	2	2	....	9	....	....	.....	....	....	....	....	..	..			864 00	54 00
4	...	14	14	14	14	7	6	6	4	14	....	....	.....	....	....	....	....	..	..			1,020 00	89 05
4	...	10	10	10	10	8	6	6	4	10	....	....	.....	....	....	....	....	..	..			960 00	84 00
2	...	15	15	15	15	5	4	4	2	15	....	....	.....	....	....	....	....	..	..			864 00	408 42

RURAL AND ASSISTED SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Sunnyside Cannery	Miss C. H. Lavis	2nd Class	1,050	186	18	11	7	12.76	5	...	3	5	4
Sunnyside, No. 2	Miss R. Gordon	3rd "	1,000	187	20	10	10	15.50	....	....	6	2	5
Suquash	Mrs. E. D. Wark	3rd "	1,020	143	8	5	3	7.26	2	1	1	1	1
Surf Inlet Mine	Miss E. F. Wenmoth	2nd "	1,050	184	11	4	7	10.94	4	2	2	...	2
Swan Lake	E. A. Keeping	Interim	1,320	42	12	8	4	9.92	4	1	2	2	3
Swanson Bay	Miss C. A. Macdonald	3rd Class	1,140	189	21	12	9	15.02	9	....	2	1	6
Swift Creek	A. Birkett	2nd "	1,050	183	15	9	6	9.06	4	3	2	4	1
Sylvania	Miss J. P. Dyke	2nd "	960	189	29	9	20	18.59	3	4	4	3	13
Syringa Creek	Miss I. J. McLellan	3rd "	960	183	12	8	4	7.21	1	2	....	1	3
Tappen Siding	Miss A. Fitzgerald	3rd "	940	187	25	12	13	19.12	2	....	3	4	9
Tappen Valley	Miss E. A. Coles	2nd "	980	170	19	6	13	17.27	2	2	4	2	6
Tate Creek	Miss F. H. van de Riet	Temporary	1,320	62	13	6	7	11.08	3	2	2	3	2
Taylor Flats	Mrs. K. E. Easton	2nd Class	1,320	190	16	8	8	9.21	2	2	....	5	5
Tchesinkut Lake	Miss J. McR. Keir	Temporary	1,080	31½	9	5	4	8.41	3	2	2	1	1
Telegraph Creek	T. A. McGarrigle	Academic	1,380	154	24	14	10	11.95	6	4	7	3	3
Telkwa	Miss M. K. Morrow	2nd Class	1,100	182	39	25	14	23.08	8	6	3	5	10
Thetis Island	A. Tomlison	Academic	900	185	15	6	9	8.48	9	....	..	4	2
Three Forks	Miss L. P. Doane	2nd Class	960	165	11	9	2	9.84	4	....	....	....	5
Thrums	J. D. MacKay	2nd "	1,080	188	40	18	22	26.02	9	5	3	11	10
Thurlow	Miss I. E. Murtagh	2nd "	1,020	126½	7	4	3	6.63	2	1	2	1	1
Tonkawatla	Miss A. A. Morgan	2nd "	1,020	182½	9	5	4	8.68	3	2	....	2	1
Topley	Miss M. R. Allan	3rd "	1,050	113	19	8	11	12.11	6	...	3	3	7
Tranquille	Miss F. McKinnon	3rd "	960	187½	13	5	8	6.85	2	1	1	3	4
Trapp Lake	Mrs. M. K. Parsons	3rd "	980	168½	15	9	6	12.06	4	....	....	6	5
Trinity Valley	J. P. Kane	3rd "	1,000	142	10	6	4	9.35	....	2	1	1	5
Trout Lake	Mrs. E. H. Macpherson	Academic	1,140	189	18	11	7	15.60	2	....	1	3	4
Tulameen	S. Moore	"	1,020	188	16	5	11	11.11	....	....	3	2	4
Turtle Valley	Miss M. Harrison	2nd Class	960	169½	20	7	13	15.35	4	....	2	4	6
Twin Butte	Miss M. E. Tapping	2nd "	960	184	12	5	7	9.34	2	....	4	1	5
Ucluelet	Mrs. A. G. Lyche	1st "	1,020	186	12	5	7	9.32	2	....	3	....	3
Ucluelet, East	C. Leys	Academic	1,100	189	9	4	5	4.58	6	....	1	....	....
Union Bay, 1st Division	D. J. Anderson	2nd Class	1,260	188	40	20	20	30.20	....	....	....	....	10
" 2nd "	Miss G. G. Davis	2nd "	1,080	184	39	23	16	31.89	....	....	12	12	15
" 3rd "	Miss G. L. McKay	3rd "	960	187	38	18	20	30.50	21	17	....	....	....
Usk, 1st Division	J. A. Maguire	2nd "	1,200	171	26	8	18	21.48	1	....	1	9	10
" 2nd "	Miss H. A. Jones	Temporary	1,050	76	21	10	11	19.52	15	....	2	4	....
Valdes Island	Miss E. Mowat	3rd Class	960	181	13	6	7	8.31	3	....	2	5	3
Vananda	Miss M. Clark	2nd "	1,200	188½	39	22	17	31.28	7	7	....	3	12
Vanderhoof, 1st Division	A. J. Richards	1st "	2,000	186	18	6	12	14.17	....	....	....	....	....
" 2nd "	Miss S. E. Willey	3rd "	1,250	185	35	23	12	19.52	....	....	....	21	14
" 3rd "	Miss L. Richmond	2nd "	1,080	186	35	18	17	28.77	20	8	7	....	....
Vavenby	Miss L. D. Kelly	2nd "	1,020	180	9	3	6	6.32	1	1	1	2	3
Vesuvius	Miss J. L. Berto	2nd "	780	188	27	13	14	18.49	12	1	3	6	2
Vesuvius, North	Miss V. Adams	3rd "	830	186½	20	8	12	11.26	1	3	2	3	6
Vinsulla	Mrs. M. A. Macedo	2nd "	1,050	176½	23	12	11	20.45	1	2	5	5	4
Waldo, 1st Division	J. Ramsay	2nd "	1,280	188	36	15	21	27.91	....	....	....	....	26
" 2nd "	Miss M. E. Partington	1st "	1,050	185	44	19	25	34.26	13	3	8	20	....
Waleach	Miss D. I. Gordon	3rd "	960	188½	12	8	4	8.56	4	....	3	....	3
Walhachin	Miss E. A. Bristow	3rd "	960	187	14	8	6	12.64	3	....	4	2	3
Wanklyn	Miss M. C. Binnie	3rd "	1,000	175½	9	4	5	6.02	1	4	....	2	2
Wapta	Miss I. Wilson	2nd "	1,080	188	13	4	9	8.07	....	1	2	4	5
Wardner, 1st Division	D. M. McIntyre	2nd "	1,350	188	23	14	9	22.33	1	....	....	2	13
" 2nd "	Miss M. A. Griffin	3rd "	1,000	136	26	13	13	19.29	11	8	3	4	....
Wasa	Miss V. J. Evans	2nd "	1,080	186	12	7	5	7.14	4	1	....	1	6
Watmore	Miss M. M. Smith	3rd "	960	172½	8	2	6	6.99	3	1	2	....	....
Wellbore Channel	Mrs. K. Walters	3rd "	1,020	187	12	11	1	11.28	3	1	...	2	3
Wellington, 1st Division	Miss J. H. Louden	2nd "	1,140	189	32	14	18	23.42	....	....	....	....	9
" 2nd "	Miss S. M. McDonald	3rd "	960	189	40	19	21	26.66	19	1	7	13	...
Wellington, South, 1st D.	S. O. Harries	1st "	1,380	189	30	23	7	23.63	....	....	..	....	....
" " 2nd "	Miss A. Waugh	2nd "	1,200	189	43	21	22	37.99	....	....	....	....	43
" " 3rd "	Miss E. Bendell	2nd "	1,080	189	43	21	22	39.68	.	....	19	24	....
" " 4th "	Miss A. Mazzoline	2nd "	960	188½	48	27	21	43.11	29	19	....	....	...
Westbank	Miss V. V. Lloyd	2nd "	1,020	175	23	13	10	13.16	4	3	9	2	4
Westbank Townsite	Miss L. M. Boyd	Academic	1,160	183½	39	18	21	33.59	4	....	6	....	10
Westsyde	Mrs. C. H. Inskip	2nd Class	1,020	169	19	12	7	17.47	2	....	3	2	4
Westview	Miss N. M. Cordingley	2nd "	960	187	12	8	4	9.65	4	....	1	....	4
Whaletown	B. R. Allen	Academic	1,020	185	18	14	4	11.52	4	....	1	....	4
White Lake	Miss M. C. Carlin	3rd Class	1,000	188	16	6	10	15.30	....	....	2	7	6
Williams Lake	Miss C. Bertrand	3rd "	1,260	175	44	28	16	28.71	14	...	5	9	9
Williams Siding	Miss I. D. Bell	2nd "	1,020	188	13	6	7	7.45	3	....	7	2	....
Willow River	Miss M. L. Williams	2nd "	1,140	188	12	4	8	7.36	1	....	....	2	4
Wilmer	Miss M. C. Bell	3rd "	1,080	188	14	7	7	11.75	2	2	1	....	5
Wilson Creek	Miss E. I. Macey	3rd "	900	184	11	7	4	9.40	3	1	1	2	2
Windermere	Miss A. B. MacKenzie	1st "	1,020	184	11	8	3	8.28	....	1	2	1	3
Winlaw	Miss F. I. Campion	2nd "	1,180	188	43	17	26	26.56	9	3	5	6	16

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																					Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		
																				$ cts.	$ cts.
1	...	18	18	18	18	10	5	5	1	18	....	....	18	....	....	....	....	..	..	1,050 00	.....
7	...	20	20	20	20	14	12	12	7	20	....	...	20	....	...	...	...	..	..	1,000 00	461 33
2	...	8	8	8	8	4	3	3	2	8	....	....	.....	....	...	...	...	..	..	816 00	440 00
1	...	11	11	11	11	3	3	3	1	11	....	..	.....	....	...	...	...	..	..	1,050 00	34 76
....	...	12	12	12	12	5	3	3	....	12	....	....	.....	....	...	...	...	..	..	264 00	.....
3	...	21	21	21	21	10	9	9	3	21	....	....	.....	....	...	...	...	..	..	1,133 30	.....
1	...	15	15	15	15	6	2	2	1	15	....	....	15	....	...	...	...	..	..	1,026 65	192 34
2	...	29	29	29	29	18	15	15	2	29	....	....	.....	....	...	...	...	..	..	960 00	185 31
5	...	12	12	12	12	9	8	8	5	12	....	....	.....	....	...	...	...	..	..	960 00	91 08
7	...	25	25	25	25	20	16	16	7	25	....	....	.....	....	...	...	...	..	..	580 00	444 85
3	...	19	19	19	19	11	9	9	3	19	....	....	19	....	...	...	...	..	..	980 60	52 26
1	...	13	13	13	13	6	3	3	1	13	....	....	.....	....	...	...	...	..	..	396 00	330 00
2	...	16	16	16	16	12	7	7	2	16	....	....	16	....	...	...	...	..	..	1,285 25	246 50
....	...	9	9	9	9	2	1	1	....	9	....	....	.....	....	...	...	...	..	..	164 60	34 85
1	...	24	24	24	24	7	4	4	1	24	....	....	.....	....	...	...	...	..	..	1,331 30	....
7	...	39	39	39	39	22	17	17	7	39	....	....	39	....	...	...	...	..	..	1,100 00	.....
....	...	15	15	15	15	6	2	2	....	15	....	....	.....	....	...	...	...	..	..	900 00	.....
2	...	11	11	11	11	7	7	7	2	11	....	....	11	....	...	...	...	..	..	838 75	237 29
2	...	40	40	40	40	23	12	12	2	40	....	....	.....	....	...	...	...	..	..	1,080 00	132 32
....	...	7	7	7	7	2	1	1	....	7	....	....	.....	....	...	...	...	..	..	714 00	.....
1	...	9	9	9	9	4	2	2	1	9	....	....	.....	....	...	...	...	..	..	1,020 00	394 39
....	...	19	19	19	19	10	7	7	....	19	....	....	.....	....	...	...	...	..	..	630 00	.....
2	...	13	13	13	13	9	6	6	2	13	....	....	.....	....	...	...	...	..	..	960 00	.....
....	...	15	15	15	15	11	5	5	....	15	....	....	.....	....	...	...	...	..	..	942 65	649 48
1	...	10	10	10	10	7	6	6	1	10	....	....	.....	....	...	...	...	..	..	754 55	71 75
7	1	18	18	18	18	14	11	11	8	18	....	....	.....	1	1	1	1	1	1	1,140 00	247 12
7	...	16	16	16	16	13	11	11	7	16	....	....	.....	....	...	...	...	..	..	1,020 00	.....
4	...	20	20	20	20	14	10	10	4	20	....	....	20	....	...	...	...	..	..	881 80	595 79
....	...	12	12	12	12	6	5	5	....	12	....	....	.....	....	...	...	...	..	..	960 00	.....
4	...	12	12	12	12	7	7	7	4	12	....	....	.....	....	...	...	...	..	..	1,014 00	133 85
2	...	9	9	9	9	2	2	2	2	9	....	....	.....	....	...	...	...	..	..	1,000 00	517 81
30	...	40	40	40	40	40	40	40	30	40	....	....	.....	....	...	...	...	..	..	1,218 00	}
....	...	39	39	39	39	27	15	15	....	39	....	....	39	....	...	...	...	..	..	1,038 00	} 1,044 36
....	...	38	38	38	38	.....	.....	.....	.....	38	....	....	.....	....	...	...	...	..	..	960 00	}
5	...	26	26	26	26	24	15	15	5	26	....	....	.....	....	...	...	...	..	..	1,044 00	....
....	...	21	21	21	21	4	.....	.....	.....	21	....	....	.....	....	...	...	...	..	..	420 00	.....
....	...	13	13	13	13	8	3	3	....	13	....	....	13	....	...	...	...	..	..	955 45	285 88
10	...	39	39	39	39	25	22	22	10	39	....	....	.....	....	...	...	...	..	..	577 25	962 46
18	...	18	18	18	18	18	18	18	18	18	....	....	.....	....	...	...	...	..	..	580 00	}
....	...	35	35	35	35	35	14	14	....	35	....	....	.....	....	...	...	...	..	..	580 00	} 4,032 96
....	...	35	35	35	35	.....	.....	.....	.....	35	....	....	.....	....	...	...	...	..	..	576 80	}
1	...	9	9	9	9	6	4	4	1	9	....	....	.....	....	...	...	...	..	..	979 20	113 73
3	...	27	27	27	27	11	5	5	3	27	....	....	27	....	...	...	...	..	..	577 10	.....
5	...	20	20	20	20	14	11	11	5	20	....	....	.....	....	...	...	...	..	..	577 25	413 70
6	...	23	23	23	23	15	10	10	6	23	....	....	.....	....	...	...	...	..	..	1,032 50	51 40
10	...	36	36	36	36	36	36	36	10	36	....	....	.....	....	...	...	...	..	..	580 00	.....
....	...	44	44	44	44	20	.....	.....	.....	44	....	....	.....	....	...	...	...	..	..	580 00	.....
2	...	12	12	12	12	5	5	5	2	12	....	....	.....	....	...	...	...	..	..	960 00	.....
2	...	14	14	14	14	7	5	5	2	14	....	....	.....	....	...	...	...	..	..	955 45	237 51
...	...	9	9	9	9	4	2	2	....	9	....	....	.....	....	...	...	...	..	..	1,000 00	285 03
1	...	13	13	13	13	10	6	6	1	13	....	....	.....	....	...	...	...	..	..	1,080 00	59 35
7	...	23	23	23	23	22	20	20	7	23	....	....	.....	....	...	...	...	..	..	580 00	}
....	...	26	26	26	26	4	.....	.....	.....	26	....	....	.....	....	...	...	...	..	..	424 45	} 1,444 08
....	...	12	12	12	12	7	6	6	....	12	....	....	.....	....	...	...	...	..	..	1,080 00	.....
2	...	8	8	8	8	2	2	2	2	8	....	....	.....	....	...	...	...	..	..	960 00	181 25
3	...	12	12	12	12	8	6	6	3	12	....	....	.....	....	...	...	...	..	..	1,014 35	.....
23	...	32	32	32	32	32	32	32	23	32	....	....	.....	....	...	...	...	..	..	1,140 00	.....
....	...	40	40	40	40	13	.....	.....	.....	40	....	....	.....	....	...	...	...	..	..	960 00	.....
30	...	30	30	30	30	30	30	30	30	30	23	7	.....	....	...	...	...	..	..	1,380 00	}
....	...	43	43	43	43	43	43	43	....	43	....	....	.....	....	...	...	...	..	..	1,200 00	} 1,476 50
....	...	43	43	43	43	24	.....	.....	.....	43	....	....	.....	....	...	...	...	..	..	1,080 00	}
....	...	48	48	48	48	.....	.....	.....	.....	48	....	....	.....	....	...	...	...	..	..	960 00	
1	...	23	23	23	23	7	5	5	1	23	....	....	.....	....	...	...	...	..	..	1,020 00	.....
9	10	39	39	39	39	19	19	19	19	39	....	....	39	10	10	10	10	2	2	577 25	917 70
8	...	19	19	19	19	14	12	12	8	19	....	....	.....	....	...	...	...	..	..	882 00	493 66
3	...	12	12	12	12	7	7	7	3	12	....	....	12	....	...	...	...	..	..	960 00	143 36
9	...	18	18	18	18	13	13	13	9	18	....	....	.....	....	...	...	...	..	..	1,020 00	47 67
1	...	16	16	16	16	14	7	7	1	16	....	....	.....	....	...	...	...	..	..	1,000 00	89 27
7	...	44	44	44	44	25	16	16	7	44	....	....	.....	....	...	...	...	..	..	1,176 00	.....
1	...	13	13	13	13	3	1	1	1	13	....	....	.....	....	...	...	...	..	..	1,014 35	224 83
5	...	12	12	12	12	11	9	9	5	12	....	....	12	....	...	...	...	..	..	1,040 00	1,002 10
4	...	14	14	14	14	9	9	9	4	14	....	....	.....	....	...	...	...	..	..	1,080 00	189 55
2	...	11	11	11	11	6	4	4	2	11	....	....	.....	....	...	...	...	..	..	895 00	423 99
4	...	11	11	11	11	8	7	7	4	11	....	....	11	....	...	...	...	..	..	1,020 00	.....
4	...	43	43	43	43	26	20	20	4	43	....	....	.....	....	...	...	...	..	..	577 25	514 85

RURAL AND ASSISTED SCHOOLS.

SCHOOL.	TEACHER.	CERTIFICATE.	Annual Salary.	Days School was in Session.	No. of Pupils enrolled.	Boys.	Girls.	Average Daily Attendance.	First Primer.	Second Primer.	First Reader.	Second Reader.	Third Reader.
			$										
Wire Cache	J. McMullan	1st Class	960	127	9	4	5	8.20	2	1	....	1	3
Wistaria	C. A. Procunier	2nd "	1,140	189	12	7	5	10.31	....	2	....	4	....
Woods Lake, 1st Division	Miss E. R. Johnston	Academic	1,440	186	21	9	12	18.52	2	....	....	4	4
" 2nd "	Miss A. Thorlakson	2nd Class	1,200	107	25	9	16	18.31	10	...	9	6	....
Woodville Road	Miss S. Wallock	3rd "	1,000	187	16	7	9	12.88	7	....	3	4	2
Wycliffe, 1st Division	R. J. Copley	Academic	1,250	187½	24	14	10	17.77	....	....	....	9	4
" 2nd "	Miss M. L. Baxter	2nd Class	1,150	187½	25	14	11	23.54	10	4	11	....	....
Wynndel	Miss M. G. Topliss	2nd "	1,140	184	40	20	20	30.14	1	4	4	4	15
Yahk	Miss G. B. Ilsley	Academic	1,080	172	29	13	16	17.43	8	2	4	5	6
Yale	Miss A. L. Munro	2nd Class	960	187½	23	15	8	15.27	8	....	1	3	8
Ymir	Miss A. M. Orr	2nd "	1,300	189	31	17	14	25.27	1	1	3	5	13
Grand total, Rural and Assisted Schools, 19		20-1921	.....	....	16719	8605	8114	.....	3307	1420	1923	2854	3876
" " " 19		19-1920	.....	....	15467	7957	7510	.....	3265	1431	1702	2471	3614

SCHOOL-YEAR ENDING JUNE 30TH, 1921—*Continued.*

NUMBER OF PUPILS IN EACH READER AND IN EACH SUBJECT OF STUDY.																				Amount paid by Government on account of Teachers' Salaries, etc.	Amount paid by District in addition to Expenditure by Government.
Fourth Reader.	Fifth Reader.	Writing, Dictation and Spelling, and Composition.	Arithmetic.	Nature Lessons and Hygiene.	Drawing.	Geography.	Canadian History and British History.	English Grammar.	English Literature.	Physical Exercises.	Manual Training.	Domestic Science (Needlework, etc.).	Music.	Algebra.	Geometry.	Latin.	French.	Physical Science.	Botany.		
																				$ cts.	$ cts.
2	...	9	9	9	9	6	5	5	3	9	....	....	9	....	...	...	..	..	..	680 75	350 50
6	...	12	12	12	12	10	6	6	6	12	....	....	.....	....	...	....	..	..	..	1,140 00	110 00
11	...	21	21	21	21	19	15	15	11	21	....	....	.....	....	...	....	..	..	..	580 00	2,614 72
....	...	25	25	25	25	6	.....	.....	....	25	....	....	.....	....	...	....	..	..	..	320 35	
....	...	16	16	16	16	6	4	4	....	16	....	....	16	....	...	....	..	..	..	1,000 00	209 85
11	...	24	24	24	24	24	15	15	11	24	....	....	.....	....	...	....	..	..	..	580 00	2,174 34
....	...	25	25	25	25	.....	.....	.....	....	25	....	....	.....	....	...	....	..	..	..	580 00	
12	...	40	40	40	40	31	27	27	12	40	....	....	40	....	...	....	..	..	..	1,140 00	.....
4	...	29	29	29	29	15	10	10	4	29	....	...	.....	....	...	....	..	..	..	1,080 00	534 50
3	...	23	23	23	23	14	11	11	3	23	....	....	.....	....	...	....	..	..	..	960 00	149 80
8	...	31	31	31	31	26	21	21	8	31	....	....	.....	....	...	....	..	..	..	580 00	1,571 91
3167	172	16719	16669	16611	16669	9908	7099	7053	3339	16098	108	195	5041	163	163	148	143	79	55	651,585 90	348,982 35
2781	203	15459	15459	15249	15292	8877	6463	6353	2961	14743	127	227	6045	192	215	158	174	95	76	572,269 40	279,647 83

SCHOOLS IN ELECTORAL DISTRICTS, 1920-21.

Electoral Districts.	Names of Schools.	Number of Schools open during 1920-1921.	No. of Teachers employed in 1920-1921.	Number of Pupils enrolled.	Government Expenditure for Teachers' Salaries.
Alberni	Alberni City Municipality School District; Bainbridge; Bamfield; Beaver Creek; Cape Scott; Cherry Creek Valley; Clayoquot; Departure Bay; Errington; French Creek; Gill; Grant Mine; Hilliers; Kildonan; Nanoose; Parksville; Port Alberni City Municipality School District; Port Alice; Qualicum Beach; Qualicum, Little; Quatsino; Red Gap; Ucluelet; Ucluelet, East; Wellington	26	36	914	$31,862 75
Atlin	Alice Arm; Atlin; Discovery; Granby Bay; Stewart; Telegraph Creek	6	11	289	9,641 20
Cariboo	Alexandra; Barkerville; Beaver Lake; Chilcotin; Chimney Creek; Dragon Lake; Glencoe; Harpers Camp; Hilborn; Meldrum Creek; Macalister; Miocene; 150-Mile House; Quesnel; Rose Lake; Sister's Creek; Soda Creek; Williams Lake	18	20	334	20,147 00
Chilliwack	Abbotsford; Chilliwack City Municipality School District; Chilliwack Rural Municipality School District; Cultus Lake; Matsqui Rural Municipality School District; Sumas Rural Municipality School District	33	75	2,330	42,478 95
Columbia	Athalmer; Blaeberry; Brisco; Castledale; Field; Golden; Harrogate; Horse Creek; Invermere; Parsons; Sinclair; Wapta; Wilmer; Windermere	15	18	381	15,939 30
Comox	Alert Bay; Bevan; Blubber Bay; Bowser; Campbell River; Comox; Cortes Island; Courtenay City Municipality School District; Cumberland City Municipality School District; Denman Island; False Bay; Fanny Bay; Gillis Bay; Granite Bay; Grantham; Headquarters; Heriot Bay; Hornby Island; Kaleva; Kingcome Inlet; Lang Bay; Lazo; Lund; Malcolm Island; Marshall; Merville; Minto; Mitchell Bay; Myrtle Point; McGuigan; Nimpkish; Nimpkish River; Nob Hill; Okeover Arm; Olsen Lake; Port Hardy; Powell River; Puntledge; Rock Bay; Royston; Sandwick; Savary Island; Sayward; Stillwater; Squirrel Cove; Suquash; Thurlow; Union Bay; Valdes Island; Vananda; Wellbore Channel; Westview; Whaletown	53	81	2,237	73,875 45
Cowichan	Bench; Clo-oose; Cobble Hill; Cowichan; Cowichan Lake; Duncan Consolidated School District; Glenora; Koksilah; Mayo; Mill Bay; Sahtlam; Shawnigan; Sylvania	17	31	868	22,603 05
Cranbrook	Bull River Bridge; Cranbrook City Municipality School District; Curzon; Fort Steele; Kimberley; Kingsgate; Marysville; Mayook; Moyase; Moyie; Wanklyn; Wardner; Wasa; Wycliffe; Yahk	18	38	1,105	24,592 70
Delta	Barnston Island; Delta Rural Municipality School District; Langley Rural Municipality School District; Surrey Rural Municipality School District	4	78	2,441	44,114 60
Dewdney	Coquitlam Rural Municipality School District; Essondale; Harrison River (in Kent Rural Municipality School District); Hatzic Prairie; Ioco; Lake Buntzen; Maple Ridge Rural Municipality School District; McConnell Creek; Mission Rural Municipality School District; Nicomen; Nicomen, North; Pitt Meadows Rural Municipality School District; Port Coquitlam City Municipality School District; Port Moody City Municipality School District; Sunnyside, No. 2	39	75	2,052	45,473 25
Esquimalt	Albert Head; Colwood; Esquimalt Rural Municipality School District; Goldstream; Happy Valley; Highland; Jordan River; Langford; Metchosin; Otter Point; Port Renfrew; Rocky Point; Shirley; Sooke; Sooke, North	16	35	958	23,035 25
Fernie	Baynes Lake; Caithness; Coal Creek; Cokato; Corbin; Crowsnest; Elk Bridge; Elko; Fernie City Municipality School District; Flagstone; Hosmer; Jaffray; Michel; Michel, New; Morrissey Mines; McGuire; Newgate; Roosville; Waldo	20	55	1,799	34,114 35
Fort George	Aleza Lake; Beaverly; Blue River; Braeside; Chief Lake; Chilco; Collishaw; Dawson Creek; Dome Creek; Dunster; Ellesby; Engen; Fort Fraser; Fort George; Fort George, South; Giscome; Hulatt; Hutton; Lake District; Landry; Lee; Loos; Lucerne; Mapes; Mud River; McBride; Nechako; Orange Valley; Penny; Pouce Coupe; Pouce Coupe, Central; Pouce Coupe, North; Prince George City Municipality School District; Saskatoon Creek; Swan Lake; Swift Creek; Tate Creek; Taylor's Flats; Vanderhoof; Willow River	41	52	1,117	47,389 35
Grand Forks	Brown Creek; Carson; Cascade; Fife; Gilpin; Grand Forks City Municipality School District; Hilltop; Kettle River, North; Outlook; Spencer	11	22	765	15,169 70
Greenwood	Anaconda; Anarchist Mountain; Boundary Falls; Bridesville; Christian Valley; Coltern; Eholt; Greenwood City Municipality School District; Ingram Mountain; Kettle Valley; Midway; Myncaster; Norwegian Creek; Rock Creek; Rock Mountain	16	18	336	17,025 25

(The) Islands	Beaver Point; Burgoyne Bay; Cranberry Marsh; Deep Cove; Divide; Gabriola, East; Gabriola, North; Gabriola, South; Galiano; Galiano, North; Ganges Harbour; Hardwick Island; Isabella Point; James Island; Mayne Island; Pender Island; Retreat Cove; Saanich, North; Saturna Island; Sidney; Thetis Island; Vesuvius; Vesuvius, North	23	27	628	$19,114 50
Kamloops	Adelphi; Anderson Creek; Balmoral; Barriere River; Barriere Valley; Beresford; Blind Bay; Cahilty; Campbell Creek; Campbell Range; Carlin Siding; Chase; Chase Creek, Lower; Chu Chua; Clearwater; Clifton; Copper Creek Station; Duck Range; Fish Lake Road; Floral Creek; Fruitlands; Grande Prairie; Heffley Creek; Heffley Creek, Upper; Kamloops City Municipality School District; Knutsford; Lac du Bois; Lackenby; Lee Creek; Little Fort; Long Lake; Louis Creek; Magna Bay; Martin's Prairie; Monte Creek; McLure; North Thompson, West; Notch Hill; Paxton Valley; Pemberton Range; Raft River; Robin's Range; Rose Hill; Round Top; Salmon Arm City Municipality School District; Salmon Arm Rural Municipality School District; Savona; Savona Road; Shuswap; Shuswap North; Sorrento; Squam Bay; Sullivan Valley; Sunnybrae; Tappen Siding; Tappen Valley; Tranquille; Trapp Lake; Turtle Valley; Vavenby; Vinsulla; Watmore; Westsyde; White Lake; Wire Cache	72	102	2,339	71,183 00
Kaslo	Ainsworth; Alice Siding; Argenta; Boswell; Camp Lister; Canyon City; Cooper Creek; Crawford Bay; Creston; Erickson; Ferguson; Florence Mine; Gerrard; Gray Creek; Huscroft; Kaslo City Municipality School District; Kitchener; Riondel; Shutty Bench; Sirdar; Trout Lake; Wynndel	24	33	866	28,091 60
Lillooet	Big Bar; Big Bar Mountain; Big Bar, Upper; Blue Ridge; Bonaparte, North; Bonaparte Valley; Bridge Lake; Canim Lake; Clinton; Criss Creek; Forest Grove; Lac la Hache; Lillooet; Pachelqua; Pemberton Meadows; Red Lake; Rexmount; Roe Lake; Seton Lake Creek; 70-Mile House; Seton Portage; Springhouse	22	24	313	18,665 60
Nanaimo	Brechin; Cedar, North; Chase River; Harewood; Nanaimo City Municipality School District; Nanaimo Bay	9	52	2,058	37,949 20
Nelson	Nelson City Municipality School District	2	29	951	14,776 65
Newcastle	Cassidy; Cedar, East; Cedar, South; Diamond Crossing; Extension; Ladysmith City Municipality School District; Mountain; Northfield; Oyster; Oyster, North; Wellington, South	12	34	1,049	27,153 80
New Westminster	New Westminster City Municipality School District	9	88	3,092	39,368 25
North Okanagan	Armstrong Consolidated School District; Ashton Creek; Coldstream Rural Municipality School District; Deep Creek; Enderby City Municipality School District; Enderby, North; Falkland; Glenemma; Grandview Bench; Grindrod; Hendon; Heywood's Corner; Hilton; Hupel; Kedleston; Lumby; Mabel Lake; Mara; Okanagan Landing; Oyama; Reiswig; Salmon Bench; Salmon Valley; Seymour Arm; Sicamous; Silver Creek; Sunnyside; Trinity Valley; Vernon City Municipality School District; Woodville Road	41	80	2,298	50,029 50
North Vancouver	Bowen Island; Brackendale; Britannia Beach; Britannia Mine; Doriston; Elphinstone Bay; Howe Sound; Irving Landing; Mill Creek; North Vancouver City Municipality School District; North Vancouver Rural Municipality School District; Pender Harbour; Roberts Creek, East; Seechelt; Skookumchuck; Squamish; West Vancouver Rural Municipality School District; Wilson Creek	27	92	3,031	54 800 50
Omineca	Bulkley, North; Bulkley, South; Burns Lake; Decker Lake; Driftwood; Endako; Francois Lake; Francois Lake, South; Glentanna; Hazelton; Hazelton, New; Houston; Lake Evelyn; Alexander Manson; Nithi River; Round Lake; Smithers; Tchesinkut Lake; Telkwa; Topley; Wisteria	21	24	471	21,042 10
Prince Rupert	Bella Coola; Bella Coola, Lower; Buckley Bay; Cedarvale; Essington; Firvale; Hanall; Inverness; Kitsumgallum; Lawn Hill; Masset; MacKenzie; Noosatsum; Ocean Falls; Osland; Pacific; Port Clements; Prince Rupert City Municipality School District; Queen Charlotte; Sandspit; Simpson; Skidegate; Sunnyside Cannery; Surf Inlet Mine; Swanson Bay; Usk	27	55	1,381	37,936 65
Revelstoke	Albert Canyon; Arrowhead; Beaton; Begbie; Big Eddy; Bowie; Cartier; Craigellachie; Crawford Creek; Eagle Valley; Galena Bay; Glacier; Hall's Landing; Malakwa; Revelstoke City Municipality School District; Solsqua; Sproat; Tonkawatla; Twin Butte	20	37	1,051	27,115 95
Richmond	General Brock and General Wolfe (in South Vancouver Rural Municipality School District); Point Grey Rural Municipality School District; Richmond Rural Municipality School District; Sexsmith and Sir Wm. Van Horne (in South Vancouver Rural Municipality School District)	21	127	4,726	72,500 00
Rossland	Annable; Rossland City Municipality School District	3	17	551	9,456 65
Saanich	Oak Bay Rural Municipality School District; Saanich Rural Municipality School District	18	74	2,522	41,644 00
Similkameen	Allenby; Allen Grove; Cawston; Coalmont; Copper Mountain; Fairview; Hedley; Kaleden; Keremeos; Killarney; Nickel Plate Mine; Okanagan Falls; Olalla; One-mile Creek; Osoyoos; Penticton Rural Municipality School District; Princeton; Princeton, East; Tulameen	21	47	1,312	32,398 40
Slocan	Appledale; Arrow Park, East; Arrow Park, West; Bellevue; Box Lake; Burtondale; Carroll's Landing; Deer Park; Demars, West; Edgewood; Fauquier; Fire Valley; Glenbank; Koch Siding; Mount Ingersoll; Nakusp; Needles; New Denver; Passmore; Perry Siding; Renata; Rosebery; Sandon; Silverton; Slocan City Municipality School District; Summit Lake; Three Forks; Winlaw	29	38	849	30,226 20

SCHOOLS IN ELECTORAL DISTRICTS, 1920-21—*Continued.*

Electoral Districts.	Names of Schools.	Number of Schools open during 1920-1921.	No. of Teachers employed in 1920-1921.	Number of Pupils enrolled.	Government Expenditure for Teachers' Salaries.
South Okanagan	Bear Creek; Ellison; Fir Valley; Glenrosa; Kelowna City Municipality School District; Kelowna, East; Kelowna, North; Meadow Valley; Mission Creek; Naramata; Okanagan; Okanagan, Centre; Okanagan, South; Peachland Rural Municipality School District; Rutland; Summerland Rural Municipality School District; Westbank; Westbank Townsite; Woods Lake	24	59	1,680	$ 34,064 45
South Vancouver	Burnaby Rural Municipality School District; and Carleton; Connaught; Gordon; High School; Moberly; McBride; Mackenzie; Norquay; Secord; Selkirk; and Tecumseh (in South Vancouver Rural Municipality School District)	26	206	7,685	118,088 00
Trail	Balfour; Belford; Birchbank; Blueberry Creek; Brilliant; Castlegar; Champion Creek; Columbia Gardens; Crescent Valley; Duhamel; Erie; Fruitvale; Glade; Harrop; Hume; Kinnaird; Krestova; Meadow Spur; Parks Siding; Pass Creek; Procter; Robson; Salmo; Shoreacres; Slocan Junction; Syringa Creek; Thrums; Trail City Municipality School District; Williams Siding; Ymir	33	65	1,836	47,758 85
Vancouver City	Vancouver City Municipality School District	36	537	19,717	244,988 15
Victoria City	Victoria City Municipality School District	25	199	6,491	90,236 65
Yale	Agassiz (in Kent Rural Municipality School District); Ashcroft; Aspen Grove; Boston Bar; Brookmere; Cache Creek; Canford; Chaumox; Concord; Foster's Bar; Gladwin; Hope; Hope Station; Keefers; Lytton; Merritt City Municipality School District; Nicola; Nicola, Lower; North Bend; Popcum; St. Elmo; Spences Bridge; Waleach; Walhachin; Yale	25	40	1,087	28,433 75
	Total, 1920-1921	946	2,734	85,950	1,664,484 55
	" 1919-1920	922	2,557	79,243	1,509,015 91

PART III.

APPENDICES.

APPENDIX A.

TEACHERS' CERTIFICATES.

Following are the names of persons to whom certificates of qualification to teach were issued:—

ACADEMIC CERTIFICATES.

(Names in alphabetical order.)

Alexander, Elizabeth, M.A., University of Aberdeen.
Appleyard, Edith M., B.A., Western College, London.
Biggar, Ethel Isobel, B.A., University of London.
Black, George Patton, M.A., University of Manitoba.
Black, Norman Fergus, M.A., Ph.D., Queen's University and University of Toronto.
Boyd, Lillian Martha, B.A., University of British Columbia.
Bragg, Thomas George, B.A., University of Toronto.
Brown, Leo B., B.Sc., University of Alberta.
Campbell, Robert Henry, University of Saskatchewan.
Clarke, Denis.
Clement, William James, Queen's University.
Coates, Kathleen McKie, B.A., University of British Columbia.
Connor, Carl Y., B.A., University of Toronto.
Copley, Robert J., B.A., University of Alberta.
Copping, Marjorie, B.A., University of British Columbia.
Craig, Gwynnyford Anne, B.A., University of Alberta.
Dancey, Percy Morrow, B.A., Queen's University, Kingston.
Davidson, Edna Brown.
Draper, Hester Elizabeth, B.A., University of British Columbia.
Dunbar, John, B.A., Queen's University, Kingston.
Elsey, Charles Roy.
Falconer, Kathleen, M.A., University of Aberdeen.
Flint, Mrs. Eleanor J., B.A., University of Manitoba.
Giegerich, Laura Clinton, B.A., University of Toronto.
Gladwin, Aleen Harrison, B.A., University of British Columbia.
Harrop, Ruth Elizabeth, B.A., Queen's University, Kingston.
Hartness, Dumail Horatio.
Irvine, Florence Annabel, B.A., University of British Columbia.
Johnston, Edna Ruth, B.A., University of Manitoba.
Jones, Grace Eleanor, B.A., University of Wales.
Kion, Gertrude Anna.
Law, Elmer Ellsworth, B.A., University of Toronto.
Livingstone, John Hartwell, B.A., University of Manitoba.
Lockhart, William Love, M.A., University of Glasgow.
Lucas, Evyline Caroline A., B.A., University of British Columbia.
Lundie, George Archibald, M.A., University of Durham.
Magee, Vesta Isabel, B.A., Acadia University, Nova Scotia.
Marwick, Edna Marian, M.A., University of British Columbia.
Masterton, Robert B., M.A., King's College, Nova Scotia.
Matheson, Agnes Helen, B.A., University of British Columbia.
Mitchell, W. McGregor, B.A., Queen's University, Kingston.
Morris, Verna Edna, B.A., University of British Columbia.
Munro, Norman, B.A., B.Sc., University of Aberdeen.
MacDonald, George Duncan, B.A., St. Francis Xavier University, Nova Scotia.
McDowall, Jessie, B.A., University of London.
McIntosh, Mabel I., B.A., University of Alberta.
MacKirdy, Margaret, B.A., University of London.

ACADEMIC CERTIFICATES—*Continued.*

(Names in alphabetical order.)

McLeish, William Young, B.Sc., University of London.
Nicholas, Albert Perry, B.A., University of Saskatchewan.
O'Meara, Kathleen Marion Newton, B.A., McGill University, Montreal.
Parker, Edith Helen, B.A., Dalhousie University, Halifax.
Partridge, Phyllis Marion Ulmer.
Perks, Mrs. Lillian Charlotte, M.A., B.Sc., St. Andrew's University.
Reid, William Tennant.
Riddell, Annie Thorn, M.A., University of Glasgow.
Roy, Henrietta.
Siddons, John Donald, B.A., University of British Columbia.
Smith, Mrs. Edith M., B.A., University of Toronto.
Smith, Frederick Benjamin, M.A., University of Durham.
Swencisky, Dylora Mary, B.A., University of British Columbia.
Thompson, Marie Spence, B.A., University of Durham.
Thurrott, Alice Ethel, B.A., University of New Brunswick.
Walsh, Violet Charlotte, B.A., University of British Columbia.
Whitney, Ralph L., B.A., University of Toronto.

FIRST-CLASS CERTIFICATES.

(Names in alphabetical order.)

Alexander, Ottillie Dorothy Love.
Archibald, Ruby Clare.
Baillie, Eunice Elizabeth.
Balmer, Mary Lucinda.
Barnes, Margaret H.
Beairsto, Mrs. Elsie Parkin.
Binns, Marjorie.
Black, Dorothy Lindesay.
Blackwood, Isabelle Katherine.
Bowles, Myrtle Pauline.
Boyes, John Calvin Patterson.
Breadner, Mrs. Frances S. C.
Brennan, Alice Hart.
Broome, Enoch Bunting.
Brown, Jennie Frances.
Carruthers, William Thomas.
Condon, John Ernest.
Coombs, George Alexander.
Corry, Kathleen Florence.
Creelman, Jean Turner.
Curwen, Greta Elizabeth.
Darwin, Charles Bascom.
Dedolph, Lucy Laura.
Desrosiers, Marie Cecilia.
Disney, Gladys Mabel.
Dunlop, Mary.
Edwards, Ursula.
Elliott, Kathleen.
Findlay, Marjorie Livingstone.
Fletcher, Lillian Maud.
Gagnon, Eulalie Elizabeth.
Gammie, Jane Polson.
Garlick, Beatrice.
Godfrey, John D.
Grant, Neal.
Gray, Mrs. Laura B.
Hall, Howard Hager.
Hart, Ellen.
Hayton, Alma Beryle.
Henderson, Rachel Catherine.
Hendricks, Louise.
Horner, Barbara Jane.
Hunt, Adah Lilian.
Innes, Mary Winona Elizabeth.
James, Elizabeth.
Johnson, Hilda Gledhill.
Johnston, Edna M.
Johnston, Eleanor Isabel.
Kantz, Kathryn Lois.
Keatley, Nora Kathleen.
Keenan, John Kane.
Keeping, Ewart Allan (Interim).
Kidd, Eli Leeson.
Kirk, Katherine.
Kirk, Norman Leslie.
Laking, Vera Evelyn.
Lawrence, Olive Beatrice.
Lingard, Jane Josephine.
Livingstone, Ethel Belle.
Main, Hannah Scott.
Martin, Elizabeth Eva.
Martin, James.
Mercer, Marion Isabelle.
Murray, Marion V. (Interim).
Murray, Norman.
Macdonald, Pauline Mary Grant.
McIvor, Louise C.
MacKenzie, Agnes Tryphena.
MacLeod, William Roy.
Nakabayashi, Annie Kiku.
Oliver, Sarah Ellen.
Price, Edith Ethel.
Redpath, Muriel Annie.
Riddell, Georgina Gordon.
Roberts, Alexandria Mary.
Robertson, Archibald Philip.
Scott, Gladys MacRitchie.
Shaw, Mary Jeannie.
Skelding, Cecil Howes.
Skidmore, William.
Sparkes, Ralph Edward.
Spouse, Mrs. Margaret.
Stewart, Emma Mary.
Stuart, Dorothy Louise.
Thompson, Hazel M.
Thomson, Charlotte McGregor.
Vallance, Evelyn G.
Wagstaff, Nellie Ada.
Wallace, Edna Elizabeth.
Weatherbee, Ava Ryetta.
Webster, Lila H.
Whittaker, Helen Hazel.
Wilby, Elsie Louisa.
Williams, Ethel Jane M.
Williams, Ruth Naomi.
Wilson, Mary.
Wood, Alice Margaret.
Wood, Margaret Amelia.

SECOND-CLASS CERTIFICATES.

(Names in alphabetical order.)

Adair, Florence Elizabeth.
Adams, Edith Lilian.
Aikenhead, Edna Ross.
Aldcorn, Mary Findlay.
Allardyce, Catherine M.
Allen, Eva Muriel.
Anderson, Margaret Christine.
Andrews, Grace Mary.
Archibald, Marjorie Gordon.
Arkell, Kathleen.
Armstrong, Rachel.
Atkinson, Mrs. Mabel.
Auld, Marion Lucy.
Ault, Kathleen Sarah.
Baillie, Annie Taylor.
Ballson, Celene Agnes.
Barker, Jennie C.
Barr, Mary Eunice.
Barton, Lurlene Mary.
Baxter, Muriel Lillian.
Beach, Sarah Evelyn.
Beairsto, Harold King.
Beech, Laura Ethel.
Bell, Gertrude Helen Hope.
Bell, Irene Dora.
Bevan-Pritchard, Gilbert H.
Bewell, Wilfrid Frank.
Birkett, Arthur.
Birkett, Edith.
Black, Helen Margaret.
Boucher, Edrie Evelyn Alexandra.
Boulton, Mrs. Mary Edna.
Bowden, Beatrice Duthie.
Bowing, Martha Elvira.
Boyes, James Thomas.
Boyes, William Earl.
Brackett, Margaret A.
Braithwaite, E. Victor.
Brandon, Ilsa Sarah.
Brennan, William J.
Brown, Elizabeth Margaret.
Brown, Ethel Mary.
Burns, Sarah.
Burrow, Mary G.
Busby, Grace Elizabeth.
Cain, Florence Marguerite.
Cameron, Lila Evelyn.
Cameron, Lillian Mai.
Cameron, May.
Campion, Flora Isabel.
Carder, Winnifred.
Carlson, Esther Gunhilda.
Carlson, Ruth Matilda.
Carmichael, Thomas Spurgeon.
Carruthers, Dorothy Kathleen.
Carty, Margaret Veronica.
Caspell, Mrs. Fanny.
Cates, Kathleen Wilson.
Chadwick, Marjory Lory.
Chasteney, Kathleen Noel.
Cheeseman, Stephen A.
Chute, Isabella Beaton.
Clancey, Emma Violet.
Clark, Helen Bruce.
Clements, Ella Violet.
Cody-Johnson, Mary Adele.
Colman, Alice J.
Cordingley, Norma Millicent.
Creighton, Phyllis Ogilvie.
Crompton, Amy.
Davies, Charles Edgar.
Davis, Grace L.
Davis, Kathreen.
Davis, Violet Alma.
Deans, Margaret McCallum.
Dee, John Sanderson.
Denton, Beatrice Irene.
Dew, Annie Nina.
Dickman, Lavina Frances.
Dixon, Caroline.
Donley, Ethel Annie.
Douglass, Agnes Gray.
Driver, Esther Ruth.
Dryden, Grace Good.
Duke, Alma Mercer.
Edwards, Ethel Anne.
Elliott, Jennie May.
Elliott, Margaret Lillian.
Ellis, Muriel Mae.
Elsey, Gertrude Elizabeth.
Feakes, Harry James.
Featherstone, Kathleen M. G.
Fee, Edith Alberta.
Fee, Mary Ethel.
Ferguson, Eulalie Laird.
Ferris, Mrs. Agnes J.
Fielder, Rhoda Jayne.
Fletcher, Hazel M.
Foley, Wilbur Lucian.
Ford, Euphemia Grace.
Ford, Laura Joanna.
Forrest, Helen Dorothy.
Forrest, Sadie Jane.
Forster, Clara Catherine.
Gaudin, Francis Hugh.
Geddis, Jenda Hamilton.
Geekie, Jean.
Gibbs, Eleanor Josephine.
Gibson, Edith Eleanor.
Girard, Rowena May.
Graham, Helen.
Grant, Clara Annie.
Green, Edith Flora.
Green, Katie.
Hale, Winifred Kathleen.
Hand, Verna Margaret.
Hardwick, Dorothy Winnifred G
Hardwick, Walter Henry.
Hargreaves, Lucy.
Harris, Hermia.
Harrison, Margaret.
Haskin, Almera Sara.
Hastings, Violet Gordon.
Hayton, Freda May.
Head, Dorothy Grace.
Heady, Nellie.
Hodnett, Mrs. Jessie.
Hoggan, Dorothy Evelyn.
Hole, Gwendoline Mabel.
Homuth, Mary Lois.
Hopkins, Agnes Clara.
Horsman, Helen Dorothea.
Houston, Elizabeth Irvine.
Howarth, Mrs. Sara Julia.
Huddleston, Hilda.
Hurton, Gertrude.
Inglis, Bertha M.
Inglis, Mary Arnott.
Irvine, Robert Barker.
Irving, Norma Alfreda.
James, Lillias Olga.
Jerome, Agnes Elizabeth.
Johnson, Lyda Annie.
Johnston, Katherine Freda.
Kane, Joseph Patrick.
Keir, Marie Isabel.
Kellie, Evelyn Augusta.
Kennedy, Irene Mary Margaret.
Kidd, Ruby Winnifred.
Lade, Mary Eliza.
Larsen, Pauline.
Lavis, Charlotte Hannah.
Lee, Phyllis Joyce.
Link, Marion Martha.
Link, Mary Mildred.
Lloyd, Vida Valerie.
Logie, Grace.
Lusk, Gladys Muriel.
Lyons, Ronald Adlai.
Malott, Marion.
Martin, Catherine M.
Martin, Edith Irene.
Millar, Ethel J.
Miller, Ruby Robeson.
Moody, Ethel May.

SECOND-CLASS CERTIFICATES—*Continued.*

(Names in alphabetical order.)

Moore, Marion Elizabeth.
Morgan, Annie Allan.
Morrison, Marion Stephen.
Mouat, Gertrude Eleanor.
Moulton, Muriel Emma.
Murray, Louise E.
MacArthur, Olive Edwina.
McCaffrey, Elizabeth.
McCallum, Sara Vina.
Macaulay, Annie.
McClelland, Margaret L.
McColm, Sara W.
McCusker, Dorothy Victoria.
McDonald, Mauretta Evelyn.
McDougal, Colin.
McDougall, Margaret Alexandra.
McEachern, Mary.
McFadyen, Ida.
MacGill, Jennie Ethel.
McGowan, Virginia.
McIntosh, Cecelia M.
MacKay, Kate.
McKenna, Helen.
McKenzie, Louisa Victoria.
McKinnon, Annie Sophie.
McLaren, Myrtle Viola.
MacLeod, Helen Ethel.
McLeod, Ina Marguerite.
McLeod, Margaret Adelaide.
McManus, Edith Mildred.
McNairn, Christina.
MacNaughton, Eunice.
Nichols, Oliver.
Noble, Islay Barbara.
Olson, Vera Charlotte.
Owen, Lucy Ellen.
Pack, Mrs. Alice L.
Page, Beulah I.
Parker, Mona I.
Pears, Frances Winifred.
Pearson, Harry L. O.
Peresian, Alice Maud.
Peters, Camille Marie.
Peterson, Ida Helena.
Philip, Mary Brown.
Phillips, Edith Anne.
Piggott, Eleanora.
Port, Nellie Edna.
Postill, Mrs. Eleanor Armour.
Potter, Elsie.
Potter, Winifred Annie.
Pottinger, Myrtle Gladys.
Power, Laura R. M.
Preston, Marjory.
Pullen, Mabel F.
Raftery, Rosalie Alice.
Ratledge, Vera.
Reid, Hazel Ella.
Revercombe, Elsie Aileen.
Richmond, Lizzie.
Rogers, Victoria Elizabeth.
Ross, Carrie Evelyn.
Rowse, Florence Mina.
Russell, Mrs. Agnes G.
Sangster, H. Isabelle.
Scarth, Nellie B.
Schneider, Elizabeth Erna.
Scott, Mrs. Minnie.
Scurrah, Margaret.
Shaw, Sybil Jean.
Sheepy, Janet.
Short, Caroline E.
Smith, Brenda.
Smith, Harry.
Smith, Marie Aline.
Smith, Ruby.
Southam, Harold Davey.
Spiers, Grace Steel.
Stanton, Lilian Sarah.
Steward, Gilbert Richard.
Stewart, Edna Margaretta.
Stewart, Gertrude Elliott.
Stringer, Harold C.
Sutherland, Jeanne Henderson.
Sutherland, Wesley.
Sutton, Phyllis May.
Tait, Ina Belle.
Teague, Phyllis Elwy.
Thacker, Nellie Linton.
Thorpe, Gladys Maud.
Thompson, Jennie Burnside.
Thomson, Lela Esther.
Trembath, Ethel Agnes.
Tripp, Verner Edward.
Turnbull, Agnes Hutchinson.
Turner, Ruth Ellis.
Tyacke, William John.
Utz, Mary Elizabeth.
Wallace, Elizabeth Hart.
Wallace, Etta Hamilton.
Walsh, Margaret L. M.
Watson, Lily Isabella.
Watson, Marjorie G. C.
Willoughby, Gladys.
Wilkinson, Mary Grace.
Wilson, Isabel.
Wilson, Margery.
Wollaston, Catherine M.
Woods, Mary Loretto.
Woodward, Lilian M.
Wright, Margaret Anne.

THIRD-CLASS CERTIFICATES—VALID FOR LIFE.

(Names in alphabetical order.)

Allan, Mabel Ruth.
Baker, Helen Burnard.
Bauld, Simpson Wallace F.
Braden, Clare E.
Brander, Nora M.
Cameron, Phyllis Jean.
Catto, Helen Mitchell.
Dell, Viola Evangeline.
Edwards, Florence Elizabeth.
Edwards, Maggie.
Hawthornthwaite, Cecilia Eros.
Larson, Effie Helen.
Livingstone, Edward.
Lomas, Gladys E.
Marshall, Elizabeth Christian.
Marshall, Isabella Margaret.
Moore, Blanche.
Mutrie, Jean Anita.
Macdonald, Catherine Alma.
McDonald, Marjorie Vera.
MacKay, Elizabeth A. G.
McSpadden Mabelle Marguerite.
Newman, Elizabeth Marjory.
Patterson, Pearl Elizabeth.
Pullinger, Percy.
Purdy, Dorcas Ethelwyn.
Rhodes, Gladys.
Sanborn, Harriet Agnes.
Schou, Frances Dorothy.
Seater, Jane Lizzie.
Sharp, Barbara J.
Sutherland, Janet Margaret.
Taylor, Jessie Marjorie.
Wark, Mrs. Elsie D.
Weetman, Winifred Mary.
Whitley, Ida Philippa.
Wilkie, Mary Beatrice.

THIRD-CLASS CERTIFICATES—VALID FOR THREE YEARS.

(Names in alphabetical order.)

Adams, Violet.
Baker, Marjorie Lillian.
Barlow, Margaret Young.
Beall, Gladys Winnifred.
Beatty, Edna M.
Bell, Mary Cecilia.
Binnie, Mary Christiana.
Bradshaw, Hazel Inez.
Brown, Kathleen Winifred.
Cousins, Alice.
Cousins, Anna Lillian.
Cowdell, Lillian Frances.
Dilworth, Joseph.
Dryden, Jean A.
Essler, Martha.
Flatt, Samuel Alexander.
Goodman, Christine.
Griffin, Margaret Alice.
Hazlett, Norah.
Hetherington, Ruth B.
Holmes, Edna Sophia.
Hopwood, Sadie Eleanor.
Houston, Mildred Elsie.
How, Anna B.
Ingram, Lucy.
Kania, Mary Ernestine.
Kilby, Edward Wheatley.
Klien, Gretha.
Larson, Nellie E.
Larson, Winifred E.
Lindmark, Ruth A.
Macey, Elizabeth Irene.
Maloney, Rita A.
May, Margaret Lucy.
Mercer, Marion Isabelle.
Michie, Alice Charlotte Esther.
Mitchell, Arthur Hilton.
Moses, Grace Evelyn.
Murray, May Louise.
McColl, Margaret Duff.
McCubbin, Ila Mildred.
MacDonald, Gladys Evelyn.
McDonald, Josephine.
McElhinney, Lina Baker.
McKay, Irene Isabel.
McLaren, Alexander Gordon.
McLellan, Isabel Jean.
MacPherson, Mary Ellen.
Newhauser, Hattie Louise.
Patchett, Delphine H. R.
Pengelly, Helen South.
Phillips, Margaret.
Rock, Mrs. Vera J.
Rogers, Beatrice Adelaide.
Rogers, Olive Alice.
Ross, Gladys L.
Ross, Willow Katharine.
Standen, Alice E.
Shannon, Jean Annie.
Steele, Frederick Holmes.
Taylor, Clara Louise.
Wagg, Ola Ezetta.
Walters, Mrs. Kate.
Woods, Dorothy Beulah.

HIGH SCHOOL AND UNIVERSITY MATRICULATION EXAMINATIONS, 1921.

The High School and University Matriculation Examinations began on June 20th and were held simultaneously in the High School Buildings at Agassiz, Armstrong, Bridgeport, Chilliwack, Courtenay, Cranbrook, Creston, Cumberland, Duncan, Enderby, Esquimalt, Fernie, Grand Forks, Greenwood, Kamloops, Kaslo, Kelowna, Ladner, Ladysmith, Langley, Maple Ridge, Matsqui, Merritt, Mission, Nanaimo, Nelson, New Westminster, Oak Bay, Peachland, Penticton, Point Grey, Port Alberni, Prince George, Prince Rupert, Revelstoke, Rossland, Salmon Arm, Summerland, Surrey, Trail, Vancouver (Britannia, King Edward, King George, and Kitsilano), North Vancouver, South Vancouver, Vernon, and Victoria, as well as at Abbotsford, Hedley, Howe Sound, Nakusp, Port Alice, Princeton, and Quesnel.

The Examiners appointed to act with the Superintendent of Education were: E. H. Archibald, M.A., Ph.D.; H. Ashton, M.A., D.Litt.; D. Buchanan, Ph.D.; J. B. DeLong, B.A.; Ira Dilworth, M.A.; W. J. Fee, M.A.; G. A. Ferguson, B.A.; J. K. Henry, B.A.; H. P. Hope, B.A.; A. H. Hutchinson, M.A., Ph.D.; Annie B. Jamieson, B.A.; R. A. Little, B.A.; S. W. Mathews, M.A.; D. L. MacLaurin, B.A.; L. F. Robertson, M.A.; D. M. Robinson, B.A.; L. V. Rogers, B.A.; E. H. Russell, B.A.; W. N. Sage, M.A.; Albert Sullivan, B.A.; O. J. Todd, Ph.D.; F. G. C. Wood, M.A.

The following are the names of the winners of His Excellency the Governor-General's silver medals:—

Kathleen Mary Gwendolyn Hardie, Oak Bay High School;
Homer Armstrong Thompson, Chilliwack High School;
Kathleen Dodds, Vernon High School;
Grace Elizabeth Mabel Smith, King George High School, Vancouver;
Alan Campbell, South Vancouver High School.

The winners of the Royal Institution Scholarships awarded by the University of British Columbia on the results of the Junior Matriculation Examination follow:—

Student.	High School.	Standing obtained at Examination.	Scholarship.
Kathleen M. G. Hardie	Oak Bay	First in Province	$ 150
Norah A. Keay	"	" District No. 1	100
Vera G. Mather	North Vancouver	" " 2	100
Grace E. M. Smith	King George, Vancouver	" " 3	100
Homer A. Thompson	Chilliwack	" " 4	100
Kathleen Dodds	Vernon	" " 5	100
John C. Wallis	Rossland	" " 6	100

NUMBER OF SUCCESSFUL CANDIDATES AT EACH CENTRE.

Examination Centre.	Third-class, Non-professional Teachers' Certificates.	Third-year Commercial.	Third-year Technical.	Third-year Household Science.	Junior Matriculation.	Returned Soldiers' Applied Science Matriculation.	Senior Matriculation.	Total.
Agassiz					2			2
Armstrong					4			4
Bridgeport					2			2
Chilliwack					8			8
Cranbrook	3				2		1	6
Creston	1							1
Cumberland	1				2			3
Duncan:								
Duncan High	2				5			7
Private Study					1		1	2
Enderby					2			2
Esquimalt					2			2
Fernie					3			3
Grand Forks					6			6
Howe Sound					3			3
Kamloops:								
Kamloops High					9			9
St. Ann's Academy	2							2
Private Study	1							1
Kaslo					6		2	8
Kelowna:								
Kelowna High					13			13
Westbank Public	1							1
Ladner					2			2
Ladysmith					3			3
Langley	9				5			14
Matsqui					2			2
Merritt					1			1
Nakusp					1			1
Nanaimo	1				5			6
Nelson:								
Nelson High		6					2	8
Bosun					2			2
New Westminster:								
Duke of Connaught High					31			31
Columbian College	1							1
St. Ann's Academy	2							2
Private Study					3			3
Oak Bay					13			13
Peachland					4			4
Penticton High	1				3		1	5
Keremeos	2							2
Point Grey:								
King George V. High	1				15			16
Prince of Wales High					15			15
Port Alberni					1			1
Prince George:								
Prince George High					1			1
Private Study	1							1
Prince Rupert	1				8			9
Princeton	2							2
Quatsino					1			1
Revelstoke					5			5
Rossland					4			4
Salmon Arm					1			1
Summerland					5			5
Surrey					2			2
Trail:								
Trail High					3			3
Private Study					1			1
Vancouver:								
Britannia High		2			33			35
Cecil Rhodes High		17						17
King Edward High				7	69			76
King George High	3				39			42
Kitsilano High					23			23
Technical High			18		1			19
Crofton House	11				5			16
Mabyn College					1			1
St. Ann's Academy					1			1
St. Marina	2							2
School of Pharmacy and Science					6	3		9
Private Study	2				10			12
Vancouver, North:								
North Vancouver, High					15			15
Private Study					1			1

NUMBER OF SUCCESSFUL CANDIDATES AT EACH CENTRE—*Continued.*

Examination Centre.	Third-class Non-professional Teachers' Certificates.	Third-year Commercial.	Third-year Technical.	Third-year Household Science.	Junior Matriculation.	Returned Soldiers' Applied Science Matriculation.	Senior Matriculation.	Total.
South Vancouver	....	5	.....	.....	52	.....	.....	57
Vernon:								
Vernon High	.....	.....	.....	.....	10	.....	4	14
St. Michael's	1	.....	.....	.....	5	.....	.....	6
Private Study	.....	.....	.....	.....	2	.....	.....	2
Victoria:								
Victoria High	3	.....	.....	.....	50	.....	.....	53
St. Ann's Academy	7	.....	.....	.....	2	.....	.....	9
St. George's School	9	.....	.....	.....	2	.....	.....	11
St. Margaret's School	6	.....	.....	.....	1	.....	.....	7
Private Study	1	.....	.....	.....	7	.....	1	9
	77	30	18	7	542	3	12	689

Number of candidates examined 1,530
Number of successful candidates 689

HIGH SCHOOL ENTRANCE EXAMINATION, JUNE, 1921.

Following are the names of the winners of His Excellency the Governor-General's bronze medals:—

District No. 1—Arthur Stonier, Cloverdale School, Saanich;
" 2—Donella M. Willing, Langford;
" 3—Lawrence J. Meredith, Lord Roberts School, Vancouver;
" 4—Mildred M. Townley, Kingsway West School, Burnaby;
" 5—Pearl E. George, Crescent Beach School, Surrey;
" 6—Philip C. Fraser, Salmon Arm;
" 7—Jean O. Fraser, Ellis School, Penticton;
" 8—Kathleen M. Cairns, Trail;
" 9—Odin Sostad, Nelson;
" 10—Reid L. McLennan, Prince Rupert.

HIGH SCHOOL ENTRANCE EXAMINATION, JUNE, 1921—*Continued.*

NUMBER OF SUCCESSFUL CANDIDATES AT EACH CENTRE.

Abbotsford Centre.

Abbotsford	9
Clayburn	3
Huntingdon	2
Upper Sumas	4

Agassiz Centre.

Agassiz	14

Armstrong Centre.

Armstrong	1
Hullcar	2
Larkin	1
Glenemma	1
Heywood Corners	2
Salmon Valley	1

Arrowhead Centre.

Arrowhead	5
Galena Bay	1
Trout Lake	2

Ashcroft Centre.

Ashcroft	1

Athalmer Centre.

Athalmer	2

Atlin Centre.

Atlin	1

Barkerville Centre.

Barkerville	1

Bradner Centre.

Aberdeen	1
Bradner	2
Mt. Lehman	4

Bridgeport Centre.

Bridgeport	5

Britannia Beach Centre.

Britannia Beach	2
Britannia Mine	1

Burnaby Centre.

Douglas Road	2
Gilmour Avenue	3
Kingsway East	7
Kingsway West, Div. 1	14
Kingsway West, Div. 2	14
Schou Street	1

Burns Lake Centre.

Burns Lake	2

Chase Centre.

Chase	7
Chase Creek	2
Martin's Prairie	1
Turtle Valley	1

Chilliwack Centre.

Chilliwack City	2
Atchelitz	3
Camp Slough	3
Cheam	4
East Chilliwack	2
Lotbiniere	4
Rosedale	2
Sardis	15
Strathcona	5

Clinton Centre.

Clinton	4

Clo-oose Centre.

Clo-oose	1

Cloverdale Centre.

Anniedale	1
Cloverdale	16
Colebrook	1
Crescent Beach	2
Hall's Prairie	5
East Kensington	2
Kensington Prairie	1
Springdale	2
South Westminster	2
White Rock	1

Courtenay Centre.

Courtenay City	7
Grantham	2
Lazo	2
Merville	1
Royston	1

Cranbrook Centre.

Bull River Bridge	1
Jaffray	1
Kimberley	2
Moyase	2
Moyie	1
Wardner	1

HIGH SCHOOL ENTRANCE EXAMINATION, JUNE, 1921—*Continued.*

NUMBER OF SUCCESSFUL CANDIDATES AT EACH CENTRE—*Continued.*

Creston Centre.

Camp Lister	1
Canyon City	3
Creston	9
Erickson	1
Wynndel	6

Cumberland Centre.

Minto	1

Duncan Centre.

Chemainus	5
Cowichan	2
Glenora	2
Mill Bay	3
Shawnigan	4
Sylvania	1

Enderby Centre.

Enderby	8
Grindrod	1
Hupel	1
Mara	3

Esquimalt Centre.

Esquimalt	3
Colwood	1
Highland	1
Langford	3

Essington Centre.

Essington	3

Fernie Centre.

Fernie, Div. 1	7
Fernie, Div. 2	2
Baynes Lake	1
Coal Creek	4
Michel	1
New Michel	1
Waldo	3

Ganges Centre.

Beaver Point	1
Galiano	1
Saturna Island	1
Private Study	1

Golden Centre.

Field	1
Golden	4

Granby Bay Centre.

Granby Bay	8

Grand Forks Centre.

Cascade	1

Greenwood Centre.

Greenwood City	3
Bridesville	1
Christian Valley	2
Coltern	1
Eholt	1
Kettle Valley	2

Hazelton Centre.

Hazelton	3

Hedley Centre.

Hedley	4

Hope Centre.

Concord	1
Hope	5
St. Elmo	1
Yale	3

Howe Sound Centre.

Howe Sound	5
Sechelt	1

Kamloops Centre.

Kamloops City	1
Blue River	1
Campbell Range	1
Duck Range	2
Fish Lake Road	1
Upper Heffley Creek	2
Long Lake	2
Louis Creek	1
Monte Creek	2
Rose Hill	1
Private Schools:	
St. Ann's Academy	1
Zetland	3
Private Study	1

Kaslo Centre.

Kaslo City	12
Riondel	1

Kelowna Centre.

Kelowna City	1
Westbank	1

HIGH SCHOOL ENTRANCE EXAMINATION, JUNE, 1921—*Continued.*

NUMBER OF SUCCESSFUL CANDIDATES AT EACH CENTRE—*Continued.*

Keremeos Centre.

Keremeos	4

Kingcome Inlet Centre.

Kingcome Inlet	2

Kitsumgallum Centre.

Kitsumgallum	1
Usk	1

Ladner Centre.

Ladner	12
Tremant	1

Ladysmith Centre.

Cassidy	1
Diamond Crossing	3
Extension	3
North Oyster	2
St. Joseph's Convent (Private School)	4

Lillooet Centre.

Pemberton Meadows	1
Seton Lake Creek	1

Lytton Centre.

Lytton	1

Malcolm Island Centre.

Malcolm Island	1

Maple Ridge Centre.

Hammond	5
Haney	9
Maple Ridge	9
Ruskin	4
Whonnock	5

Masset Centre.

Masset	2

Matsqui Centre.

Matsqui	4
Ridgedale	2

Merritt Centre.

Merritt	5

Mill Creek Centre.

Mill Creek	1

Mission Centre.

Hatzic	2
Mission	6

Murrayville Centre.

Aldergrove	1
County Line	2
Langley Fort	6
Langley Prairie	6
Langley, West	3
Lochiel	3
Milner	4
Murrayville	5
Otter	1
Patricia	3

Macalister Centre.

Macalister	3

MacKenzie Centre.

MacKenzie	1
Noosatsum	2

Nakusp Centre.

Burtondale	3
Fauquier	1
Glenbank	3
Nakusp	1
Needles	1
West Demars	2

Nanaimo Centre.

Nanaimo City	5
Brechin	1
East Cedar	1
North Cedar	4
South Cedar	1
Chase River	4
Northfield	1
Wellington	3
South Wellington	1
St. Anne's Convent (Private School)	3

Naramata Centre.

Naramata	3

Nelson Centre.

Nelson Central, Div. 1	5
Nelson Central, Div. 2	9
Nelson, Hume	7
Balfour	1
Belford	1
Boswell	2
Crescent Valley	2
Duhamel	2
Fruitvale	2

HIGH SCHOOL ENTRANCE EXAMINATION, JUNE, 1921—*Continued.*

NUMBER OF SUCCESSFUL CANDIDATES AT EACH CENTRE—*Continued.*

Nelson Centre—Continued.

Harrop	2
Park Siding	1
Procter	4
Thrums	1
Ymir	3

New Denver Centre.

New Denver	2
Rosebery	1
Sandon	3
Silverton	5

New Westminster Centre.

Howay	5
Lister	5
McBride	2
Spencer	2
Annieville	1
Barnston Island	1
Hamilton Road	2
Blue Mountain	5
Millside	1
Private Schools:	
Columbian College	1
Our Lady of Lourdes	1
St. Ann's Academy	10

North Bend Centre.

North Bend	1

Notch Hill Centre.

Notch Hill	6
North Shuswap	5

Oak Bay Centre.

Monterey Avenue	12
Private Schools:	
St. Margaret's	1
St. Michael's	1
Private Study	1

Ocean Falls Centre.

Ocean Falls	9

Oyama Centre.

Oyama	7
Woods Lake	3

Parksville Centre.

Errington	2
Parksville	3

Peachland Centre.

Peachland	10

Penticton Centre.

Ellis	20
Poplar Grove	3

Point Grey Centre.

Edith Cavell	9
Kerrisdale	2
Magee	3
Marpole	2
Prince of Wales	7
Queen Mary	9
Bowen Island	2

Port Alberni Centre.

Alberni City	6
Port Alberni City	8
Beaver Creek	1

Port Alice Centre.

Port Alice	3

Port Coquitlam Centre.

Port Coquitlam City	10
East Coquitlam	1
Glen	2

Port Moody Centre.

Port Moody	10
Ioco	1
Sunnyside No. 2	1

Pouce Coupe Centre.

North Pouce Coupe	1

Powell River Centre.

Lang Bay	1
Lund	1
Powell River	7
Savary Island	1

Prince George Centre.

Prince George City	6
Fort George	3
South Fort George	1

Prince Rupert Centre.

Borden Street	3
Alice Arm	1
Annunciation (Private)	7

Princeton Centre.

Allenby	2
Copper Mountain	2
One-mile Creek	1
Princeton	5

HIGH SCHOOL ENTRANCE EXAMINATION, JUNE, 1921—*Continued.*

NUMBER OF SUCCESSFUL CANDIDATES AT EACH CENTRE—*Continued.*

Quesnel Centre.

Quesnel	1

Revelstoke Centre.

Albert Canyon	1
Big Eddy	2
Malakwa	1
Tonkawatla	1

Robson Centre.

Castlegar	3
Robson	5
Syringa Creek	1

Rock Bay Centre.

Granite Bay	2
Wellbore Channel	3

Rossland Centre.

Rossland City	5

Rutland Centre.

Ellison	2
Rutland	9

Saanich Centre.

Cedar Hill	8
Cloverdale	1
Craigflower	3
Gordon Head	1
Keating	5
Model	10
MacKenzie Avenue	7
Prospect Lake	4
Royal Oak	4
Saanichton	3
West Saanich	6
Strawberryvale	2
Tillicum	9
Tolmie	1

Salmon Arm Centre.

Salmon Arm City	16
Canoe	2
North Canoe	1
Mount Ida	2
Salmon Arm West	2
Silver Creek	1
Tappen Siding	3
Tappen Valley	2

Sandspit Centre.

Sandspit	1

Sayward Centre.

Sayward	3

Sidney Centre.

Deep Cove	2
James Island	2
North Saanich	3
Sidney	4

Slocan City Centre.

Slocan City	6

Smithers Centre.

Smithers	9

Sooke Centre.

Sooke	3

Squamish Centre.

Brackendale	1
Squamish	3

Stewart Centre.

Stewart	2

Summerland Centre.

Summerland	11
Meadow Valley	1

Surf Inlet Centre.

Surf Inlet Beach	1
Surf Inlet Mine	1

Trail Centre.

Trail City	3
Annable	1

Ucluelet Centre.

Ucluelet	1

Union Bay Centre.

Denman Island	1
Fanny Bay	1
Union Bay	1

Vananda Centre.

Blubber Bay	2
Vananda	3

Vancouver Centre.

Alexandra	3
Dawson	1
Model	2
Grandview	1

HIGH SCHOOL ENTRANCE EXAMINATION, JUNE, 1921—*Continued.*

NUMBER OF SUCCESSFUL CANDIDATES AT EACH CENTRE—*Continued.*

Vancouver Centre—Continued.

Lord Roberts	1
Cecil Rhodes	2
Private Schools:	
Endistine	1
Holy Rosary	15
St. Augustine's	9
Private Study	1

North Vancouver Centre.

Queen Mary	1
Capilano	4
Lynn Valley	5
North Star	8
St. Edmund's (Private)	2

South Vancouver Centre.

General Brock	10
Carleton	7
Moberley	10
McBride	5
MacKenzie	16
Norquay	2
Secord	10
Selkirk	8
Sexsmith	13
Tecumseh	7
Van Horne	5
Wolfe	10

West Vancouver Centre.

Hollyburn	13

Vanderhoof Centre.

Nechako	1
Vanderhoof	7

Vernon Centre.

Vernon	36
Coldstream	2
Lumby	1
Okanagan Centre	2
Reiswig	1
Vernon Preparatory (Private)	1

Victoria Centre.

Girls' Central	1
George Jay	2
Margaret Jenkins	1
North Ward	3
Oaklands	1
Quadra	2
Victoria West	1
Albert Head	1
Private Schools:	
St. Ann's Academy	20
St. Louis College	3
William Head	1

Whaletown Centre.

Squirrel Cove	1
Whaletown	1

Williams Lake Centre.

Beaver Lake	1
Chilcotin	1

Number of candidates examined	2,556
Number of successful candidates	1,307
Number of pupils promoted on recommendation	2,689
Total number of pupils promoted to high schools	3,996

APPENDIX B.

HIGH SCHOOL ENTRANCE EXAMINATION, JUNE, 1921.

ARITHMETIC. (Time, 2¼ hours.)

Value.

10 1. (*a.*) Express in figures: Thirty million, eighty-five thousand, six; three hundred and seven thousandths; three hundred seven thousandths; MDXCII.

(*b.*) Find the prime factors of 42, 56, and 70; from the prime factors find the H.C.F. and the L.C.M. of the three numbers.

10 2. (*a.*) Find the cost of 17½ yards of cotton at 17½c. a yard.

(*b.*) How many yards of muslin at 72c. a yard can be bought for $27?

(*c.*) What is a piece of cloth containing 46.7 metres worth at 26c. a decimetre?

12 3. (*a.*) A man walks 2½ miles. If he takes a step 32 inches in length, how many steps will he take in his walk?

(*b.*) Find the length of a side of a square field which contains 40 acres.

12 4. (*a.*) A school-room is 35 feet long, 28 feet wide, and 10 feet 6 inches high. There are 39 pupils in attendance. How many cubic feet of air-space does this provide for each pupil?

(*b.*) A wooden pillar is 3 feet square and 76 feet 8 inches high. Find its weight, if a cubic foot of wood weighs 29½ lb.

12 5. (*a.*) Find the tax on property assessed at $6,800 in a district where the rate of taxation is 18.7 mills on the dollar.

(*b.*) An architect charges 3¼% of the cost of a building for plans and specifications and 2½% for supervising the construction of the building. What would be his total commission on a building costing $15,750?

12 6. Find the cost at $4.70 a yard of the carpet required for the floor of a room 15 feet long and 12 feet 4 inches wide. The carpet is laid lengthwise in strips 30 inches wide.

16 7. A close board fence 4 feet high is built around a garden 72 feet long and 45 feet wide. The boards, which are 1 inch thick, are nailed to two lines of scantling 2 inches by 4 inches. The posts are placed 9 feet apart. Find the total cost of the lumber in the fence, if the posts were bought at 35 cents each and the boards and scantling at $28 a thousand feet.

16 8. A man sold his house and lot on October 3rd, 1920, and received in payment a promissory note for $4,900 payable two months later without interest. He discounted the note on the same day at 8% per annum. Find the amount of cash he received for the promissory note.

GRAMMAR AND COMPOSITION. (Time, 2 hours.)

Value.

27 1. Write the subordinate clauses in (*a*), (*b*), and (*c*), and the phrases in (*d*), stating the kind and relation of each:—

(*a.*) I should like to know how your friend found the house *where* I live.

Value.

(*b.*) There were many boys in the room by whom *that* little scene *was taken* to heart before they slept.

(*c.*) *Think* not, because thine *inmost* heart means well,
Thou *hast* the *freedom* of rude speech: sweet words
Are like the voices of returning birds
Filling the *soul* with summer, or a bell
That calls the weary and the sick to prayer.

(*d.*) *No* fires *have swept* over the hills and *left* behind them the desolation of a *bristly* landscape.

15 2. Answer the following questions regarding the italicized words in the above sentences:—
What part of speech is the word *where* and what is its relation?
That (in second sentence): Part of speech and relation?
Was taken: Transitive or intransitive? Why?
Think: Mood and person?
Inmost: Degree and relation?
Hast: Person and tense?
Freedom: Case and relation?
Soul: Case and relation?
That (in third sentence): Part of speech and relation?
No: Part of speech?
Have swept: Tense?
Left: What part of the verb?
Bristly: Part of speech?

12 3. Rewrite the following sentences, filling the blanks and giving in each case a reason for your choice:—

(*a.*) Each of the girls . . . a white rose. Use *has* or *have.*

(*b.*) . . . did you buy it from? Use *whom* or *who.*

(*c.*) John parted . . . him at the corner. Use *with* or *from.*

(*d.*) It is for . . . . Use *me and you* or *you and me.*

(*e.*) Neither George nor Thomas . . . there. Use *is* or *are.*

(*f.*) . . . I leave the room? Use *can* or *may.*

8 4. Write sentences showing that the word *last* may be used as a verb, a noun, an adjective, and an adverb; and that the word *as* may be used as a pronoun and a conjunction.

6 5. Give the voice of each of the following verbs, and then rewrite the sentences changing the voice of each verb without changing its tense:—
The rebels will be defeated by the loyal troops.
My father has bought a box of apples.

8 6. The following advertisement appeared in one of the daily papers:—
"WANTED—High school boy to assist about house and garden in return for board, clothing, and school expenses. Apply J. Williams, 5246 Robson St., Vancouver."
Write a letter applying for the position.

24 7. Write a composition on *one* of the following:—
The Unknown Soldier of Westminster Abbey.
What I would do if I had a Thousand Dollars.
Malcolm Graeme.
What I did on Christmas Day.
How I made my First Cake.
My First Pocket-knife.

DICTATION AND SPELLING. (Time, 1¼ hours.)

NOTE.—*The passages (questions A and B) are to be read slowly and distinctly to candidates three times—the first time to enable them to gather the meaning; the second time to enable them to write the words; the third time for review. Punctuation marks should not be dictated. Candidates are not permitted to rewrite the passages.*]

Value.

25 A. A fleet of canoes suddenly appeared, bounding down the rapids, filled with warriors eager for revenge. The allies had barely time to escape to their fort, leaving their kettles still slung over the fires. The Iroquois made a hasty and desultory attack and were quickly repulsed. They next opened a parley, hoping no doubt to gain some advantage by surprise. Failing in this, they set themselves, after their custom on such occasions, to building a rude fort of their own in the neighbouring forest.

25 B.

The war-pipes ceased, but lake and hill
Were busy with their echoes still;
And, when they slept, a vocal strain
Bade their hoarse chorus wake again,
While loud a hundred clansmen raise
Their voices in their Chieftain's praise.
Each boatman, bending to his oar,
With measured sweep the burden bore,
In such wild cadence as the breeze
Makes through December's leafless trees.

25 C. (1.) In idleness alone is there perpetual despair.

(2.) "A stranger I," the huntsman said.

(3.) I live in Brantford, Ontario. Where do you live?

(4.) They accepted the recommendations that were made by Premier Lloyd George.

(5.) The French took possession of the surrounding region of Acadia and Canada.

(6.)

The antlered monarch of the waste
Sprung from his heathery couch in haste.

(7.) Spain ceded Florida to Britain, while France rewarded her ally with the vast territory of Louisiana.

(8.) Before the end of the eighteenth century there appeared a vigorous rival that threatened to deprive them of their profitable monopoly.

25 D.

Educational institutions,
decimal currency,
essential features,
unfailing patience,
transportation facilities,
dangerous venture,
varied perils,
fearful dilemma,
steep ascent,
fateful answer,
characteristic costumes,
knitted goods,
solitary heath,
purple peak,
reflected hue,
beach of pebbles,
irrigated district,
harsh criticism,
defenceless condition,
military service,
heroic theme,
Yours truly,
too hurriedly,
envious tongues,
stern pursuit.

GEOGRAPHY. (Time, 2 hours.)

Value.

12 1. Your study of geography has shown you that three important influences affecting the climate of a country are: (*a*) Latitude; (*b*) direction of prevailing winds; (*c*) location and direction of highlands. Show how each of these affects the climate of: (*a*) Coast of British Columbia; (*b*) central part of South America.

10 2. What causes account for floods in the lower courses of the Nile and Fraser Rivers? In what ways are these floods: (*a*) Beneficial; (*b*) harmful?

10 3. What three countries make up the island of Great Britain? Name the chief occupations of the people in *one* of these countries, indicating districts or centres where the occupations you have named are carried on.

24 4. There are, on an average, one hundred and eighty persons to the square mile in India and only two to the square mile in Canada.

(*a.*) Give reasons why India is so much more densely peopled than Canada.

(*b.*) In what districts or areas of each of these countries do we find the densest population? Account for this.

(*c.*) In the case of each country, name *three* important exports and *three* important sea-ports.

(*d.*) What would you expect to be a leading *import* into each country? Give reasons for your answer.

(*e.*) Write three or four lines about the form of Government of each country.

28 5. Draw, as large as your paper permits, a map of the Dominion of Canada. Indicate the boundaries of the Provinces of British Columbia, Alberta, Saskatchewan, and Manitoba; mark with a dot or small circle the location of each of the following cities, and neatly print in the name: Edmonton, Brandon, Winnipeg, Regina, Calgary, Vancouver, Revelstoke, Prince Rupert, Victoria; trace the main line of the C.P.R. System from Winnipeg to Vancouver; show, by neatly printing on your map the words OIL, COAL, STOCK-FARMING, LUMBERING, the regions where these products, or industries, are of special importance.

16 6. Make a sketch-map of Australia. Indicate where the Tropic of Capricorn crosses the Continent; neatly print in the names of three adjoining coast waters, the six States of the Commonwealth, the following cities: Melbourne, Sydney, Adelaide, Brisbane, and Hobart; show and name the Great Dividing Range and the Darling-Murray River System.

BRITISH HISTORY. (Time, 1¾ hours.)

Value.

12 1. Write an account of the rise and fall of Cardinal Wolsey.

12 2. (*a.*) Describe some of the methods Charles I. used to raise money while trying to rule without a Parliament.

(*b.*) What finally forced him to call a Parliament?

18 3. (*a.*) When were the Crowns of England and Scotland united? When were the parliaments united?

(*b.*) State the terms upon which the parliaments were united.

(*c.*) Why was the union of the parliaments so long delayed after the union of the Crowns?

14 4. What events, measures, or policies made the following persons famous: (*a*) Walpole; (*b*) Chatham; (*c*) Lord John Russell; (*d*) Lloyd George?

Value.

14 5. Write on any *two* of the following:—

(*a.*) The Petition of Right.

(*b.*) Pride's Purge.

(*c.*) The Test Act.

(*d.*) The Declaration of Rights.

12 6. (*a.*) Mention reforms brought about by Pitt the Younger.

(*b.*) What event interfered with his plans for further reforms?

18 7. Show how British industry was affected by: (*a*) Opening of canals; (*b*) opening of railways; (*c*) invention of the fly-shuttle; (*d*) invention of Arkwright's frame.

CANADIAN HISTORY. (Time, 1¾ hours.)

Value.

15 1. (*a.*) Name, with dates, the different Acts of Parliament under which Canada has been governed since the country became a British possession.

(*b.*) What Parliament passed these Acts?

(*c.*) Under which Act is Canada governed to-day?

15 2. Give an account *either* of the War of the American Revolution in so far as it affected Canada, *or* of Lord Durham's mission to Canada.

15 3. (*a.*) Who were the United Empire Loyalists?

(*b.*) Where in Canada did they principally settle?

18 4. Explain any *three* of the following:—

(*a.*) Reciprocity Treaty.

(*b.*) National Policy.

(*c.*) Municipal Government.

(*d.*) Family Compact.

(*e.*) Fenian Raids.

15 5. (*a.*) Give the causes which led to the war of 1812–14.

(*b.*) In what three regions was Canada attacked in this war?

12 6. Name four Prime Ministers of Canada since 1867 and give an account of the career of *one* of them.

10 7. (*a.*) Who is the Premier of Canada; Governor-General of Canada; Lieutenant-Governor of British Columbia; Premier of British Columbia?

(*b.*) What is meant by a Coalition Government?

ENGLISH LITERATURE. (Time, 2 hours.)

Fourth Reader.

Value.

10 1. Quote any *one* of the following:—

(*a.*) The Charge of the Light Brigade, 3 consecutive stanzas.

(*b.*) "Break, break, break . . . " 4 stanzas.

(*c.*) Twenty-third Psalm.

(*d.*) "When I look upon the tombs of the great . . . " 19 lines.

15 2. Assign to author and selection each of the following quotations, and explain the references contained in the italicized words:—

(*a.*) *He* told them of a *river* whose mighty current gave
Its freshness for a hundred leagues to ocean's briny wave.

(*b.*) O just and faithful *Knight* of God!
Ride on! the *prize* is near.

(*c.*) I gazed and gazed—but little thought
What *wealth* the *show* to me had brought:

(*d.*) Blessed is he who has found his work; let him ask no other blessedness.

16 3. Give in your own words the thought expressed in each of the following passages:—

(*a.*) Now dance the lights on lawn and lea,
The flocks are whiter down the vale,
And milkier every milky sail
On winding stream or distant sea.

(*b.*) Regions Caesar never knew
Thy posterity shall sway
Where his eagles never flew
None invincible as they.

(*c.*) And never earth's philosopher
Traced with his golden pen
On the deathless page truths half so sage
As he wrote down for men.

(*d.*) For if the worst befall me, why better axe and rope
Than life with Lenthall for a King, and Peters for a pope.

9 4. In his poem, "The Red River Voyageur," in what three ways may Whittier be said to compare the journey of life with the journey of the Voyageur on the Red River of the North?

The Lady of the Lake.

13 1. An instant in this porch she staid,
And gaily to the stranger said,
"On heaven and on thy lady call,
And enter the enchanted hall!"

(*a.*) Write a description of the "enchanted hall" on Ellen's Isle.

(*b.*) Narrate what occurred on the instant that the stranger crossed the threshold.

(*c.*) Who was the stranger? Who was his guide?

(*d.*) By whom and in what manner was he entertained?

11 2. (*a.*) What was the Highland Coronach?

(*b.*) Why was the loss of Duncan of Duncraggan likened to "a summer dried fountain when our need was the sorest"?

(*c.*) Describe the part taken in the stirring events that followed by Angus the son of Duncan.

(*d.*) During the battle of Beal an Duine, what heroic deed was performed by "Duncraggan's widowed dame"?

Value.

16 3. Clearly explain each of the following passages, giving in each case the setting in the story:—

(*a.*)
And from the silver beach's side
Still was the prow three fathom wide
When lightly bounded to the land
The messenger of blood and brand.

(*b.*)
Farewell to thee,
Pattern of old fidelity! . . .
. . . . . .
Tell Roderick Dhu, I owed him nought,
Not the poor service of a boat.

(*c.*)
Why is it, at each turn I trace
Some memory of that exiled race?
Can I not mountain-maiden spy
But she must bear the Douglas eye?
Can I not view a Highland brand,
But it must match the Douglas hand?

(*d.*)
Pent in this fortress of the North,
Think'st thou we will not sally forth,
To spoil the spoiler as we may,
And from the robber rend the prey?

10 4. Quote any *one* of the following:—

(*a.*) Fourteen lines beginning, "The western waves of ebbing day."

(*b.*) Twelve lines beginning, "No rude sound shall reach thine ear."

(*c.*) "Hail to the Chief," 2 stanzas.

(*d.*) "Harp of the North, farewell!" 2 stanzas.

DRAWING. (Time, 2¼ hours.)

Value.

21 (*a.*) Select three examples of work from your drawings, as follows:—

1. The best example of freehand design (coloured).
2. The best example of object or model drawing.
3. The best example of printing.

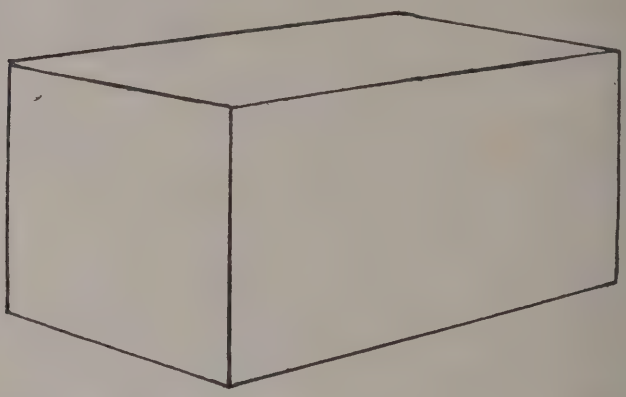
30 (*b.*) Freehand drawing:—

With ruler and set-square draw an oblong 5 inches by 7 inches. In this space draw a design in the form of a scroll and put a suitable border around the oblong.

Value.

25 (*c.*) Freehand object-drawing:—

Make an enlarged drawing of the square prism shown below and then change the drawing so that it shall represent some common object; for example, a book-stand.



24 (*d.*) Geometrical drawing:—

1. Draw a line 4 inches long, and mark off the following distances in the order given: 1 inch; ¾ inch; ½ inch; 1¼ inches. Then draw a line 2½ inches long, and divide it in the same proportion as the first line.
2. Draw a line AB 3½ inches long, and on this line construct a triangle with the angle at A 90 degrees, and the angle at B 60 degrees.
3. Draw a circle having a radius of 2½ inches. Within the circle construct the largest square you can.

(Set-squares not to be used in parts 2 and 3 of question (*d*).)

NATURE LESSONS. (Time, 1½ hours.)

[NOTE.—*Answer the first* three *questions and any* four *of the remaining nine questions.*]

Value.

15 1. (*a.*) What dangers arise from the use of the common drinking-cup, and how can such dangers be overcome?

(*b.*) Mention four of the most common causes of impurities in milk.

(*c.*) What is the one great danger in the drinking of impure water or impure milk, and what measures would you take to make a suspected sample safe for drinking?

15 2. (*a.*) What dangers to health arise from careless sweeping and dusting, and how should this work be done in the home or school-room in order to minimize those dangers?

(*b.*) What is meant by disinfection, and under what circumstances should it be carried out?

(*c.*) Mention some methods used in disinfecting articles.

14 3. (*a.*) What are the three greatest uses of the skin?

(*b.*) "Perspiration fulfils a double purpose." Explain this statement.

(*c.*) What are the values to be derived from regular bathing? Mention some precautions with reference to it.

Value.

14 4. (*a.*) What breed of dairy cattle do you know best? Write a brief description of a cow typical of this breed.

(*b.*) What is the best record you know of for a cow of this breed: (1) In pounds of milk produced in one day, one week, or one year? (2) In pounds of butter produced in one week or in one year?

(*c.*) What would you consider a low percentage and what a high percentage of butter-fat in cows' milk?

14 5. (*a.*) What are the two main classes or types of sheep raised in the Province? Name a breed representative of each of these two types. How would you distinguish one breed from the other?

(*b.*) Name two breeds of swine commonly used for the production of bacon and two that are more suitable for making fat or salt pork.

14 6. (*a.*) Make a drawing not less than 4 inches in length of any bird with which you are familiar; name it and label the parts.

(*b.*) What information would you try to get with reference to a new species of bird which you wished to identify?

14 7. (*a.*) Insects are sometimes divided into two great classes according to the manner in which they take their food. Name the two great classes referred to and give an example of each.

(*b.*) Name a poison or spray mixture commonly used for destroying insects of each of the two classes mentioned, and give reasons why the poison or mixture named by you should be used for the purpose.

14 8. (*a.*) Represent by drawing: (1) The green or vegetative form of the plant known as common horse-tail; (2) the spore-bearing form of it. Show in your drawing the connection that these two forms have in the same plant.

(*b.*) Make a drawing of a spore-bearing fern-leaf and mark the location of some of the spore-cases.

(*c.*) State briefly how a fern-plant is produced.

14 9. (*a.*) Make a drawing of quack or couch grass, showing parts under the ground as well as those above the ground, and explain why this is such a difficult weed to eradicate.

(*b.*) Enumerate the most common methods by which weeds and weed-seeds are scattered through a country.

14 10. Using the scale 1 inch equals 8 feet, draw a plan for a home garden which is to be 40 by 80 feet and which is to include small fruits as well as the usual range of garden crops. Name and show on the plan the location of each variety to be planted.

14 11. Write brief directions on care and management of a garden under the following heads:—

(*a.*) Preparation of the soil for planting.

(*b.*) Precautions to be observed in the planting of garden seeds.

(*c.*) Thinning.

14 12. (*a.*) What gas is given off when small pieces of limestone are placed in a jar containing a weak acid? How would you test this gas to prove your answer correct?

(*b.*) Name the three most important chemical constituents found in all complete fertilizers.

APPENDIX C.

HIGH SCHOOL EXAMINATION, 1921.

Third-class Certificate (Non-professional).

ALGEBRA. (Time, 2 hours.)

Value.

11 1. Factor :—

(*a.*) $108a^3 - 500$.

(*b.*) $x^3 + x^2 + x - y^3 - y^2 - y$.

(*c.*) $a^2 - 4b^2 - 3a - 6b$.

(*d.*) $x(x-2) + y(x-2) - x + 2$.

(*e.*) $x^4 - 7x^2 - 18$.

13 2. Simplify :—

$$\left\{\frac{x + \frac{y-x}{1+xy}}{1 - \frac{x(y-x)}{1+xy}} - \frac{y - \frac{y-x}{1-xy}}{1 - \frac{y(y-x)}{1-xy}}\right\} \div \left\{\frac{y}{x} - \frac{x}{y}\right\}.$$

18 3. Solve :—

(*a.*) $(2x-1)^2 - (x-3)(x-2) = 3(x-2)^2 - 4$.

(*b.*) $\frac{x}{2} - \frac{3y}{4} + z + 1 = 3(x-y) + 5z + 4 = x + 6y - 2z - 9 = 0$.

9 4. Find the H.C.F. and L.C.M. of :—

$x^3 + 6x^2 + 11x + 6$, $x^3 + 7x^2 + 14x + 8$, $x^3 + 8x^2 + 19x + 12$.

12 5. (*a.*) Find the cube root of $1 - 6x + 21x^2 - 44x^3 + 63x^4 - 54x^5 + 27x^6$.

(*b.*) Find the square root of $(2x^2 - x - 3)(x^2 - 4x - 5)(2x^2 - 13x + 15)$.

13 6. A man bought 8 cows and 50 sheep for $900. He sold the cows at a gain of 20% and the sheep at a gain of 10%, receiving in all $1,030. Find the cost of a cow.

10 7. When $x = \frac{ac}{a+c}$, find the value of $\frac{x-2a}{x+2c} - \frac{x+2a}{x-2c} + \frac{4ac}{x^2-4c^2}$.

14 8. A's wages are half as much again as B's, but A spends twice as much as B. If A save $5 and B $10 per week, what are the wages of each per week?

ARITHMETIC. (Time, 2 hours.)

[*All work must be shown. It must be neat and accurate.*]

Value.

12 1. A wholesale merchant bought a car-load of berries for $1,380. He was obliged to sell them at a loss of 12½%. One retailer who purchased $375 worth of berries on credit failed in business and paid his creditors 40 cents on the dollar. Find the wholesaler's total loss.

12 2. A grocer buys 6 bags of Rio Coffee, 125 lb. in a bag, at 12 cents a pound, and 9 bags of Java Coffee, 75 lb. in a bag, at 20 cents a pound. If he makes a mixture of the two kinds and sells it at a profit of 90%, how much does he receive per pound?

12 3. Find the duty on 25,000 cigars, invoiced at $62.50 per thousand, weighing on an average 10½ oz. per box of 50 cigars. The tariff rate is $3 per pound and 25% ad valorem.

12 4. A man borrowed $450 on March 10th at 6%, and $1,200 on April 10th at 5%. He paid both principal and interest in each case on December 30th of the same year. How much did he pay?

12 5. A manufacturer's profit on a bicycle was 20%; the wholesaler's profit was 16⅔%, and the retailer's profit was 25%. If the retailer's selling price was $35, what was the cost of the bicycle to the manufacturer?

12 6. A company paid $3,000 for a hall. During the first year they rented it 148 evenings at $15 an evening. Their expenses were: Coal, 7½ tons at $12.50 per ton; lighting, $31.40; repairs, $78.60; insurance, $18.45; taxes, $47.80. What per cent. did they make on their investment?

12 7. An advertising company constructs a billboard 50 feet long and 10 feet high with boards 1 inch thick. The posts are 12 feet long and 4 inches square; they are placed 10 feet apart. There are three rows of scantling to which the boards are nailed, 3 inches wide and 2 inches thick. Find the total cost of the lumber required if the boards cost $35 per thousand feet, the posts $30 per thousand, and the scantling $25 per thousand.

16 8. My money in the Savings Bank was paying me 3½% interest. I drew out $2,002 and invested it in railroad stock at 125, paying the usual brokerage of ⅛%. This stock yielded a semi-annual dividend of 2½%. Was my semi-annual income increased or diminished, and how much?

BOTANY. (Time, 1½ hours.)

[NOTE.—*Answers should be illustrated with diagrams.*]

Value.

35 1. Write an account of leaves under the following headings, giving examples:—

(*a.*) Compare evergreen and deciduous leaves.

(*b.*) The condition of leaves in buds and during the opening of buds.

(*c.*) The arrangement of leaves in relation to light.

(*d.*) Food manufacture as it is carried on by leaves.

(*e.*) Compare the leaves of a plant belonging to the Liliaceæ with those of a plant belonging to Rosaceæ (using a specific example in each case) with respect to venation, shape, etc.

Value.

30 2. Describe the flower of a plant belonging to the Cruciferæ, *or* Labiatæ. What part in the production of fruits and seeds is taken by each whorl of the flower described?

35 3. (*a.*) Name a plant belonging to each of the families: Cruciferæ, Labiatæ, Compositæ. Describe and compare the corollas of the plants named.

(*b.*) Name a plant belonging to each of the families: Ranunculaceæ, Rosaceæ, Liliaceæ. Compare the carpels of the plants named.

CHEMISTRY. (Time, 2 hours.)

[*All questions are of equal value. Answer any* seven.]

1. Show by means of a drawing how you could obtain nitrogen gas from the atmosphere. What are the chemical and physical properties of this gas?

2. Of what elements is water composed? How can you prove your statement?

3. What relationship exists between the temperature of a gas and its volume? What scientific men were concerned in the discovery of this relationship?

4. What volume of hydrogen, measured at 750 mm. Hg. pressure and 24° C., will be formed by the action of sulphuric acid on 2.55 grams of zinc? 1 litre of hydrogen at 760 mm. pressure and 0° C. weighs 0.09 grams. (Zn = 65.4; H = 1.008.)

5. What do you understand by Gay-Lussac's law of volumes? Illustrate your answer by applying this law to the formation of hydochloric acid from hydrogen and chlorine.

6. What is the difference between a saturated, an unsaturated, and a supersaturated solution? How could you determine the extent to which a salt would dissolve in a given volume of solution?

7. If the formula of copper sulphate is $CuSO_4$, $5H_2O$, what is the per cent. of sulphur and of copper in this substance? (Cu = 63.6; S = 32.06; O = 16.00; H = 1.008.)

8. What weight of ferric oxide (Fe_2O_3) can be prepared from 4.84 grams of iron? What weight of zinc nitrate ($Zn(NO_3)_2$) from 5.55 grams of zinc? (Fe = 55.9; O = 16.00; H = 1.008; Zn = 65.4; N = 14.01.)

COMPOSITION. (Time, 2 hours.)

Value.

60 1. Write any essay on *one* of the following subjects:—

(*a.*) Life in the Village of Auburn.

(*b.*) Byron's Impressions of Rome.

(*c.*) Scott's Love of the Romantic and Picturesque.

(*d.*) Do Moving Pictures Help the High School Student?

30 2. Write a descriptive paragraph of about a page in which you aim to give a *clear* and *pleasing* picture of *one* of the following:—

(*a.*) Sunset on the River Brenta.

(*b.*) The Falls of Terni (Velino).

(*c.*) London From Westminster Bridge.

Value.

10 3. Make necessary corrections in the following sentences and point out the nature of the error in each case:—

(*a.*) He was neither expert in one or the other.

(*b.*) He asked John and I to go with him.

(*c.*) I would deliver your message but have no one who I can send.

(*d.*) Let each esteem others better than themselves.

(*e.*) The landscape was the most gorgeous I ever witnessed.

Third-class Certificate (Non-professional), Full Course.

DRAWING. (Time, 2 hours.)

(a.) Selections from Drawings.

[*The time taken to collect these drawings is not to be deducted from the two hours allowed for this paper.*]

Select the following from your drawing-books, and write your distinguishing number at the top right-hand corner of each. Before beginning your drawing give these to the Examiner.

Value.

6 1. An example of shaded object-drawing.

7 2. An example of painting from nature.

7 3. An example of freehand design.

(b.) Geometrical.

[*All lines used in constructions must be clearly shown.*]

[*Attempt* three only *of the following five questions.*]

10 1. Construct a rhomboid with one side 1½ inches long, short diagonal 1¾ inches long, and one angle 37½ degrees.

10 2. Give the number of degrees in one interior angle (i.e., between two adjacent sides) of the following polygons: Regular pentagon, regular heptagon, regular octagon, regular nonagon, regular decagon.

10 3. A quadrilateral ABCD has the sides AB and AD each 1¾ inches long, BC and DC each 2½ inches long, the diagonal AC 3 inches long. Draw the quadrilateral and inscribe a circle in it.

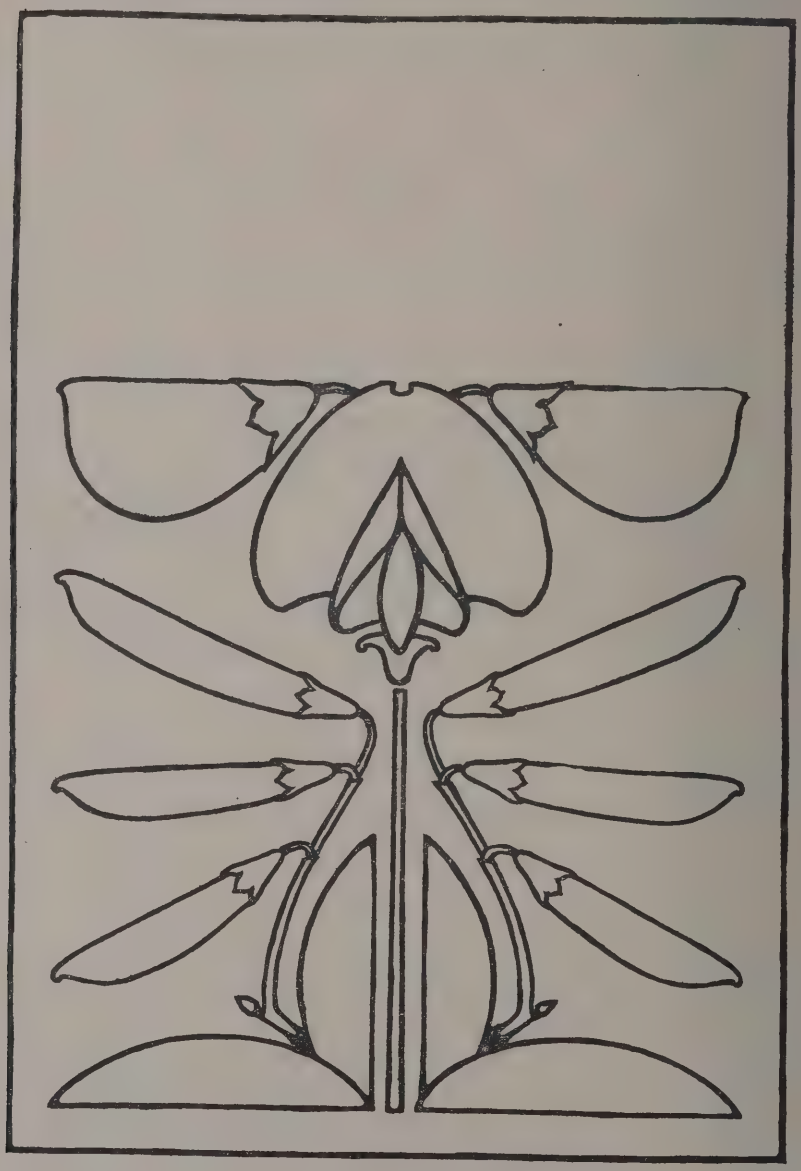
10 4. Construct a rhombus with long diagonal 3 inches long and obtuse angles each 105 degrees.

10 5. Draw any irregular pentagon on a base 1⅞ inches long and construct a similar pentagon having its base 2⅝ inches long.

(c.) Freehand.

Value.

25 Adapt the partly finished book-cover design, given below, to suit a book 8 inches high by 5½ inches wide. Utilize the blank space for the title GARDENS OF ENGLAND. You may use instruments to draw lines to indicate the edges of the cover, as well as to draw guide lines for the title. All other lines must be drawn freehand.



(d.) Object.

25 Draw from memory a group of two or more common objects attractively arranged on a rectangular supporting surface. This drawing should be at least 6 inches wide.

Third-class Certificate (Non-professional).

ENGLISH LITERATURE. (Time, 2 hours.)

Value.

10 1. Quote *any two* of the following:—

(*a.*) Byron's Address to the Ocean (one stanza).

(*b.*) A Sonnet of Wordsworth.

(*c.*) Ozymandias.

(*d.*) The Village Teacher or Preacher (ten lines).

(*e.*) Rosabelle (three stanzas).

30 2. (*a.*)

"The Niobe of nations! there she stands,
Childless and crownless, in her voiceless woe."

(*b.*)

"Thou bringest unto me a tale
Of visionary hours."

(*c.*)

"We look before and after
And pine for what is not."

(*d.*)

"The fiend whose lantern lights the mead
Were better mate than I."

(*e.*)

" . . . it is a curse
To understand, not feel thy lyric flow,
To comprehend, but never love thy verse."

(*f.*)

"Away! away! for I will fly to thee,
Not charioted by Bacchus and his pards,
But on the viewless wings of Poesy,
Though the dull brain perplexes and retards."

(i.) Assign the above quotations to their authors and selections.

(ii.) Explain each passage carefully but briefly.

12 3. Compare the "Ode to a Nightingale" and "To a Skylark," paying special attention to subject-matter and treatment and showing how each poem is characteristic of its author.

14 4. Arnold Bennett has said: "Luxury . . . has nothing whatever to do with happiness." Discuss fully Goldsmith's views on this subject.

14 5.

"For I have been accustomed to entwine
My thoughts with Nature rather in the fields,
Than Art in galleries."

What evidence have you in the "Childe Harold" that this statement is true? Discuss fully.

20 6.

"The beings of the mind are not of clay;
Essentially immortal, they create
And multiply in us a brighter ray
And more beloved existence: that which Fate
Prohibits to dull life, in this our state
Of mortal bondage, by these spirits supplied,
First exiles, then replaces what we hate,
Watering the heart whose early flowers have died,
And with a fresher growth replenishing the void."

(*a.*) Write a careful prose paraphrase of the above stanza.

(*b.*) Write a brief note on the characteristics of Byron illustrated by it.

(*c.*) Give the name of the stanza-form and describe it briefly, scanning lines 8 and 9.

FRENCH (Siepmann, etc., and Fraser & Squair, etc.). (Time, 2 hours.)

Value.

10 1. Rewrite, changing all genders:—

Mon oncle avait donné à son cher neveu un boeuf roux. Ma vieille tante n'en était pas contente, parce qu'elle n'aimait pas ce garçon franc. Elle préférait toujours son autre neveu qui était moins impulsif.

10 2. (*a.*) Construct sentences with the following, expressing the comparison indicated and replacing italicized words by possessive pronouns:—

(1.) *Le cadeau de Charles* est—bon—*mon cadeau* (superiority).

(2.) Ces filles sont—belle—Marie (equality).

(3.) Mon chien n'est pas—grand—*votre cheval* (equality).

(4.) Votre lettre était—amusant—*la lettre de ma mère* (inferiority).

(*b.*) Give the superlative of:—

(1.) Celle-ci est (joli) de toutes les fleurs.

(2.) Voici les livres (intéressant).

10 3. Mon ami lui parle.

Rewrite the above sentence, inserting in turn each of the following expressions:—

(demain-pendant que l'homme travaillait—il écoutera quand—je serais content si—quelquefois—s'il avait été possible—dès qu'il eut reçu la lettre—tout à coup—si cela était vrai—envoyez-moi une lettre aussitôt que—)

5 4. (*a.*) Supply suitable relative pronouns:—

(1.) Voici le garçon—j'ai prêté mon livre.

(2.) Rendez-moi le livre—je vous ai prêté.

(3.) C'est votre frère—me l'a prêté.

(4.) C'est la maison—vous me parliez.

10 (*b.*) Rewrite (substituting personal pronouns for italicized words, and changing the second verb in each instance to the past indefinite tense):—

(1.) C'est *sa soeur* qu'il cherche.

(2.) Parlez *à ses amis.* Il les écoute toujours.

(3.) Accompagnez *votre frère.* Nous le cherchons longtemps.

(4.) Voilà *vos cousins.* Quelles belles fleurs ils apportent!

(5.) Je suis bien content. J'ai reçu *quelques lettres.*

8 5. Repeat the following passage, putting the verbs in the past indefinite (perfect), past definite (preterite), or imperfect, according to the meaning:—

"Georges, (demander) sa mère. Où (être)-tu ce matin? (Acheter)-tu ce joli petit chat?"

Voici l'histoire de son aventure.

Louis et lui (se promener) au bord du ruisseau quand ils (rencontrer) cinq ou six cruels enfants avec un pauvre chat qu'ils (tourmenter). Georges en (être) si fâché qu'il (sortir) tout son argent pour acheter la pauvre bête.

7 6. Put into French:—

(1.) What time is it? (2.) It is half-past twelve. (3.) To-day is the 25th of June. (4.) He gave me half of it. (5.) He set out on Thursday. (6.) How many francs have you? (7.) I have only a hundred.

20 7. Put into French:—

(1.) Finally he returned to France. (2.) She is too young to go to school. (3.) He paid three francs for them. (4.) In spring the birds begin to sing. (5.) Our house was a few yards from the school. (6.) Whose is this hat? It is mine. (7.) The tailor would take your measure. (8.) The tallest in the class are not so tall as they. (9.) Are the children having a good time? (10.) How beautiful those flowers are!

Value.

20 8. Put into English:—

(*a.*) Les événements que nous avons rapportés dessinèrent nettement la position de nos personnages. Craignant de perdre à la fois un chat bien-aimé et les avantages qu'elle ambitionnait, la mère Michel redoubla de vigilance et d'attention. Moumouth, sachant désormais à qui il avait affaire, se promit d'éviter le maître d'hôtel, ou de le combattre, au besoin, des griffes et des dents. Quant au père Lustucru, il suffisait que ses projets eussent été déjoués pour qu'il y persistât avec acharnement; il voulait maintenant la perte du pauvre et innocent Moumouth, non plus seulement par jalousie envers la mère Michel, mais par inimitié contre le chat lui-même.

(*b.*) La mère Michel se tut; mais son parti était pris, et, dès qu'elle eut un moment de liberté, elle courut chez la nécromancienne. Celle-ci montra d'abord quelque embarras à l'aspect de la mère Michel; cependant, après avoir fermé une porte vitrée qui communiquait à d'autres pièces, elle revint saluer sa nouvelle cliente, et dit d'un ton solennel:

"Que désirez-vous?"

"Interroger le présent, le passé et l'avenir."

"Je suis à même de vous satisfaire," repartit madame Bradamor.

GEOMETRY. (Time, 2½ hours).

[*N.B.—Draw neat diagrams, use printed capitals, and give authorities.*]

Value.

14 1. (*a.*) State four cases in which two triangles are equal in all respects.
(*b.*) Prove any *one* of these cases in full.

14 2. In a triangle the perimeter is greater than the sum of the medians.

14 3. If there are three or more parallel straight lines, and the intercepts made by them on any transversal are equal, then the corresponding intercepts on any other transversal are also equal.

14 4. P is a given point within the angle AOB. Draw through P a straight line terminated by OA and OB and bisected at P.

14 5. Parallelograms on the same base and between the same parallels are equal in area.

14 6. To find a point equidistant from three given points, A, B, C, which are not in the same straight line.

16 7. Construct a triangle having given the perimeter and the angles at the base. State your construction and give a theoretical proof.

GERMAN. (Time, 2 hours.)

Value.

12 1. Supply correct endings to the adjectives in the following sentences :—

Der lieblich — Garten gehörte ein — alt — Manne, der unſer — Hauſe gegenüber wohnte. Manch — gut — Apfel hat er mir und mein — Vettern geſchenkt. Viele bunt-Blumen brachte er unſer — Mutter. Etwas Gut — hatte er immer für jen — klein — Mädchen das ihn ſo ſehr liebte. Das waren ſchön — Zeiten.

10 2. (*a.*) Supply the correct article or possessive adjective :—

(1.) Ich wohne bei — Tante. (2.) Er ſtellte ſich hinter — Tür. (3.) Sie kauft das Buch für — Vetter. (4.) Wir fahren morgen nach — Stadt. (5.) Georg ſtand hinter — Bruder.

(*b.*) Rewrite the above sentences, substituting phrases with pronouns for those with nouns.

10 3. Connect the following sentences by means of relative pronoun forms :—

(1.) Das war mein Bruder. Sie haben ihn geſtern getroffen. (2.) Kommen Sie in den Garten. Ich habe ſchöne Blumen darin. (3.) Er hat ſchlechte Augen. Es iſt ſchade. (4.) Kannſt du es mir nicht ſagen? Ich bin dein Freund. (5.) Haben Sie den Mann vergeſſen? Wir haben ſein Haus geſtern geſehen.

5 4. (*a.*) Supply correct forms of demonstrative or interrogative pronouns :—

(1.) Weſhalb haſt du — geholfen, der immer dein Feind geweſen iſt? (2.) Er hat von Goethe und Biſmarck geſprochen; — war Dichter, — Feldherr. (3.) — ſind dieſe Manner? (4.) — Hund is das? (5.) Erinnern Sie ſich — nicht?

10 (*b.*) Put into German :—

(1.) What weather! What a storm! (2.) Which one is your brother? (3.) That sort of thing often happens. (4.) This is my book, not my wife's. (5.) I don't like men of that kind.

12 5. Change the verbs in the following sentences to *present* and *perfect* indicative :—

(1.) Der Junge lief nach Hauſe. (2.) Paul wurde müde. (3.) Sie ließ das Buch binden. (4.) Was fraß d[illegible] arme Tier? (5.) Karl ſaß vor der Tür? (6.) Was geſchah geſtern?

4 6. (*a.*) Put into English :—

(1.) Das läſſt ſich leicht machen. (2.) Das Eis will brechen. (3.) Was ſoll das? (4.) Wie dem auch ſein mag.

8 (*b.*) Put into German :—

(1.) I should like to have seen that. (2.) They are said to be very rich. (3.) You should have helped your brother. (4.) He claims to have been here at that time.

9 7. Put into German :—

(1.) Somebody is knocking. (2.) I give the best that I have. (3.) Come at six o'clock on the first of July. (4.) This boy reads best. (5.) He cut his finger. (6.) Let us set out. (7.) How are you today? (8.) Is that you, Ernest? (9.) What has become of them?

20 8. Put into English :—

(*a.*) Heute Ubend waren die zwei älteſten Kinder etwas ausgelaſſen; das eine hüpfte auf einem Beine in ſeinem langen weißen Nachthemdchen, das andere ſtand auf einem Stuhl, umgeben von den Kleidern aller andern Kinder, es ſagte, es wären lebende Bilder. Das dritte und das vierte legten die Wäſche fein

Value.

ordentlich in das Käſtchen, und das muß auch gemacht werden; die Mutter aber ſaß an dem Bette des kleinſten und bedeutete allen, daß ſie ſchweigen ſollten, denn die kleine Schweſter würde das Vater-unſer beten.

(*b.*) Es war mehr als vierzehn Tage her, daß der Mond nicht geſchienen hatte, jetzt ſtand er rund und hell da über den langſam ziehenden Wolken. Höre, was der Mond mir erzählte: „Von einer Stadt in Fezzan aus folgte ich einer Karawane; vor der Sandwüſte auf einer der Salzebenen, die wie eine Eisfläche glänzte und nur ſtellenweiſe mit leichtem Flugſande bedeckt war, wurde halt gemacht.

(*c.*) Dabei machte er ſich nun ſeine Gedanken. Ach! wenn er doch auch das Spinnrad drehen dürfte. Der Vater und die Mutter ſchliefen, er ſah ſie an, ſah das Spinnrad an und kurz darauf guckte ein kleiner nackter Fuß zum Bette heraus, nnd dann noch einer, und dann zwei Beinchen. Da ſtand er. Er ſchaute ſich nochmals um, ob Vater und Mutter auch noch ſchliefen; ja, ſie ſchliefen; und nun ſchlich er leiſe, ganz leiſe, in ſeinem kleinem kurzen Hemde zu dem Spinnrade hin nnd fing an zu ſpinnen.

LATIN. (Time, 2 hours.)

Value.

5 1. Decline in the singular: *spes, pedes, vulnus, fructus, illō* (neuter).

5 2. Decline in full: *qui* (all genders) and *fortior.*

10 3. Compare: *inferus, altus, multus, prudens, nobilis, bene, magnopere, facilis, aeger, malus.*

8 4. What is a Deponent verb? In what tenses does it retain an active formation? Exemplify your answer.

12 5. Give the ordinal numerals from one to ten inclusive, and the cardinals for 20, 30, 40, 50, 60, 70, 80, 90, and 777.

10 6. Conjugate in full:—

(*a.*) Present indicative passive of *rego.*

(*b.*) Present indicative of *patior.*

(*c.*) Present subjunctive of *volo.*

(*d.*) Future indicative of *possum.*

(*e.*) Imperfect subjunctive of *nolo.*

10 7. Give the Latin for:—

I establish friendship; he pitched a camp; to Rome; on the next day; a revolution; provisions; the seventh legion; in the middle of the river; he promised to go there; in the rear.

16 8. Translate into Latin:—

(*a.*) When the signal was given, Caesar joined battle.

(*b.*) Caesar ordered Ariovistus not to bring any infantry to the conference.

(*c.*) After delaying there a few days to secure supplies, he discovered that his soldiers were unwilling to advance.

(*d.*) So great was the valor of the soldiers that the enemy turned and fled.

9. Translate into English:—

Value.

8 (*a.*) Helvētiī proximī sunt Germānīs, quī trāns Rhēnum incolunt; reliquōs Gallōs virtūte *praecēdunt*, quod ferē cotīdiānīs proeliīs cum Germānīs contendunt. Sed undique locī nātūrā continentur: ūnā ex parte est flūmen Rhēnus altissimus et lātissimus; alterā ex parte mōns Jūra altissimus; tertiā ex parte flūmen Rhodanus nostram prōvinciam ab Helvētiīs *dīvidit*. Hīs dē causīs Helvētiī nōn lātē vagārī poterant, nec facile fīnitimīs bellum *īnferre*.

Give the principal parts of the verbs printed in italics.

8 (*b.*) Ubi eum castrīs sē tenēre Caesar intellexit, nē diūtius commeātū *prohibērētur*, ultrā eum locum ubi Germānī cōnsēderant, circiter passūs sescentōs ab iīs, castrīs idōneum locum dēlēgit, aciēque triplicī *īnstrūctā* ad eum locum vēnit. Prīmam et secundam aciem in armīs *esse*, tertiam castra mūnīre jussit.

Give the construction of the verbs printed in italics.

8 (*c.*) Ulixēs simul ac vōcem audīvit adulēscentem esse deum Mercurium sēnsit; nūllō tamen modō ab cōnsiliō dēterrērī potuit. Quod cum Mercurius sēnsisset, herbam quandam eī dedit, quam contrā carmina plūrimum valēre dīcēbat. "Hanc cape," inquit, "et ubi Circē tē baculō tetigerit, dēstrīctō gladiō, impetum in eam fac."

Express *gladio destricto* by some other Latin construction.

PHYSICS. (Time, 2 hours.)

Value.

4 1. (*a.*) Define Physics.

10 (*b.*) If the mass of one cu. cm. of air is 0.001293 gm., find the number of kg. of air in a hall 30 metres long, 15 metres wide, and 6 metres high.

6 (*c.*) Name and briefly explain the fundamental units of mass, length, and time in both the Metric and British systems.

6 2. (*a.*) What is the difference in the manner of transmission of pressure by fluids and by solids? State the law regarding pressure by fluids.

4 (*b.*) To what is pressure in fluids due? Upon what does the amount of pressure depend?

10 (*c.*) What is the pressure on the base of a vessel 15 cm. square if filled with benzine to a depth of 12 cm.? (Specific gravity of benzine 0.9.)

10 3. (*a.*) Explain clearly the three modes of heat transference and mention six applications of these principles in our daily life.

10 (*b.*) How would you proceed to make and graduate a Centigrade thermometer? Why is mercury a good liquid for thermometers?

10 4. (*a.*) Describe an experiment to show that a medium is required to transmit sound-waves. Name five substances that will transmit sound-waves.

10 (*b.*) How many metres distant is an aeroplane if the report of a gun fired from it is heard four seconds after the flash is seen? (Average temperature 15° Centigrade.)

5 5. (*a.*) Define Buoyancy. What is the cause of buoyancy in fluids?

5 (*b.*) Why will an iron ship float while a piece of iron of which it is made will sink?

10 (*c.*) A block of pine has a mass of 24 gm. and a volume of 40 cu. cm. What fraction of the block would be immersed if floating in water? What volume of the block if floating in an acid having a relative density of 1.5 gm. per cu. cm.?

PHYSIOLOGY. (Time, 1½ hours.)

[NOTE.—*Answers should be illustrated with diagrams.*]

Value.

35 1. (*a.*) Trace, briefly, the circulation of the blood.

(*b.*) What part is taken by the blood in the work of nutrition, respiration, and excretion? Why does life cease almost immediately after the heart stops beating?

30 2. (*a.*) Describe the structure of the skin.

(*b.*) Of what importance is the skin in the economy of the body; that is, what work does it perform?

(*c.*) Name three diseases of the skin; give causes, symptoms, and control or cure.

35 3. (*a.*) Briefly describe the nervous system under the headings: Brain, spinal cord, nerves, sympathetic ganglia, and sense-organs.

(*b.*) Describe one of the sense-organs in detail and show how it is related to the central nervous system.

Third-year Course, Commercial.

ARITHMETIC. (Time, 2 hours.)

B. General.

[NOTE.—*The time allowance for Arithmetic, Third-year Course, Commercial, is 2½ hours; after the expiration of 30 minutes, answers to Section A (Rapid Calculation) will be collected, and Section B (General) will then be distributed to candidates.*]

[*All questions of equal value.*]

1. Arrange the following fractions in ascending order of magnitude:—

$$\frac{5}{8}, \quad \frac{105}{163}, \quad \frac{151}{230}, \quad \frac{2211}{3535}.$$

Show your work or explain your method.

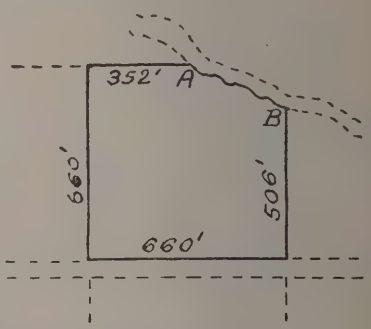
2. The travelling salesman for a Vancouver Wholesale Grocery Company is paid according to the following agreement: $200 per month, and 5% of his sales for the month over $8,000. His monthly sales for the year 1920 were:—

January	$9,600 00
February	8,980 00
March	9,210 00
April	9,210 00
May	8,500 00
June	8,110 00
July	7,540 00
August	6,870 00
September	8,620 00
October	10,750 00
November	9,857 00
December	8,993 00

What is his total salary for the year?

3. As accountant for the Burrard Milling Company you find on hand November 30th, 1920—at the end of your fiscal year—two notes, one from J. H. Black for $730, dated July 3rd, 1920, at 8 months; the other from Murray and Wilson for $475, dated September 17th, 1920, at 6 months and bearing interest at 7%. If the security is satisfactory, what valuation should you place on these notes when preparing a statement of assets?

4. About how many acres are there in this piece of land? What is, approximately, the distance from A to B?



5. The books of the Bruce and Howard Hardware Company show the following:—

Value of stock on hand January 1st, 1920 (valuation taken at cost)		$12,800 00
Purchases for 1920	$27,500 00	
Less returns	690 00	
		26,810 00
Sales for the year 1920	$43,250 00	
Less returns	730 00	
		42,520 00
Value of stock on hand December 31st, 1920 (valuation taken at cost)		15,375 00

Determine:—

(*a.*) The cost of the goods sold.

(*b.*) The gross profit of the business for the year.

(*c.*) The percentage gain on "turnover."

What other considerations have to be taken into account in determining the net profit?

6. A gasoline drum (cylindrical) is 32 in. long and 22 in. in diameter, inside measurements. How many gallons of gasoline will it hold? If the drum itself weighs 76 pounds, and the specific gravity of the gasoline is .74, what will be the total weight of the drum and gasoline?

7. A mortgage for $2,500, bearing interest at 7% per annum payable yearly, has three years to run. How much should a purchaser pay for this in order to make 8% per annum on his investment?

8. The "Gross Takings" (or income from sales) of the Columbia Sheet Metal Works have to be divided as follows:—

	Totals.	Division of the Sales Dollar.
Cost of Raw Material	$29,560 00	
Cost of Manufacturing	19,492 00	
Cost of Administration	16,250 00	
Net Profit	10,795 00	
Gross Takings		$1 00

In order to show more clearly what becomes of the "Takings," express in tabular form the number of cents out of each dollar of "Takings" that have to be allotted to each of the four items named.

ARITHMETIC. (Time, 30 minutes.)

A. Rapid Calculation.

[NOTE.—*The time allowance for Arithmetic, Third-year Course, Commercial, is 2½ hours; after the expiration of 30 minutes, answers to Section A (Rapid Calculation) will be collected, and Section B (General) will then be distributed to candidates. Candidates will complete their work on this sheet and hand it in; no other work is necessary.*]

[*All questions of equal value.*]

1. Add:—

48673
29848
96276
37589
64876
43734
97849
86897
42678
37894
69675
42845
73769
89497
78946
73894
24896
62646
73249
49684

2. Fill in the second column (to *five* places) :—

DECIMAL EQUIVALENTS OF PARTS OF AN INCH.

Parts of an Inch.	Decimal Equivalents.
$\frac{1}{32}$	
$\frac{1}{16}$	
$\frac{3}{32}$	
$\frac{1}{8}$	
$\frac{5}{32}$	
$\frac{3}{16}$	
$\frac{7}{32}$	
$\frac{1}{4}$	

3. Extend and total the following bill:—

8	Kitchen Tables, No. 176	$ 2.85	
12	Sewing Tables, No. 892	6.75	
6	Turkish Rockers, No. 457	23.25	
4	Dining Tables, No. 551	24.75	
24	Dining Chairs, No. 412	6.35	
9	Oak Rockers, No. 435	16.25	
6	Oak Desks, No. 746	23.75	
5	Library Tables, No. 132	21.25	

4. The following table shows the legal weights per bushel:—

Wheat	60 lb. per bushel.	Oats	34 lb. per bushel.
Barley	48 „ „ „		

Find the cost of:—

63,500 lb. Wheat @ $1.60 per bush.	
78,400 lb. Barley @ .80 „ „	
31,500 lb. Oats @ .44 „ „	

5. Total the following invoice, and find the cost, in Canadian currency, of a draft purchased at 4.85 to pay it:—

£	s.	d.
42	11	6
127	3	8
58	2	9
11	15	10

Cost of draft, $.....

6. Correct the errors in the following:—

BRITISH COLUMBIA DRY GOODS COMPANY.

Profit and Loss Statement for 1920.

	Dry-goods Department.	Shoe Department.	Men's Wear Department.	Totals.
Sales	$165,780	$96,370	$142,960	$405,110
Goods returned	630	250	610	1,490
NET SALES	165,150	96,120	142,350	403,620
Cost of Goods	100,740	70,015	96,370	268,125
GROSS PROFIT	64,410	25,105	45,980	135,495
Overhead Charges	16,480	7,216	10,860	34,556
NET PROFIT	47,930	17,889	35,120	100,939

ACCOUNTANCY PRACTICE. (Time, 3 hours.)

[NOTE TO PRESIDING EXAMINER.—*Please provide candidates with journal and ledger paper.*]

Value.

20 1. As accountant for the Western Trading Co. show how you would record the following transactions in a Cash Book containing special columns for Cash, Bank, Discounts, Cash Sales, Expense, and any others you please:—

(i.) Balances—Cash, $25. On deposit, $1,250.

(ii.) Traveller's memo:—Collected the following: Cheque from J. Brown for invoice No. 131, $300 less 3%. Postal orders from F. White for $115. Cash from L. Green, $25. From W. Weir, cheque to pay account of $145 with 2% deducted. From J. Thomas, cash in full of account of $175 with $3 allowed off. Traveller deducted $47.50 from cash received as his expenses and handed you the balance. The $3 allowed J. Thomas was an error and you deducted it from traveller's salary of $75 and gave him cheque for balance. You deposited all cash, exchange on cheques, ¼ of 1%.

(iii.) Cash sales, $124.65. Paid Small & Co.'s account of $400 less 3% by cheque.

(iv.) Discounted W. May's note for $120, discount $1.45, proceeds deposited.

(v.) Prepaid firm's note of $300, discount $2.50, by cheque.

Balance and close the Cash Book.

20 2. Ames and Bragg are partners. Ames invested $20,000 and withdrew $2,500. Bragg invested $10,000 and withdrew $1,200 during the year; Ames and Bragg to receive $1,500 and $1,000 salaries respectively, and each to receive 6% interest on his net investment; Losses or gains to be divided ⅔ to Ames and ⅓ to Bragg. Their books, recorded by single entry, exhibit the following results at the end of one year:—

Cash on hand, $110; On deposit, $990; Stock on hand, $25,410; Notes on hand, $2,100; Notes outstanding, $5,400; New Building, $20,000; Mortgage on same, $7,000; Debtors, $10,389; Creditors, $15,000.

Show the partners' Accounts properly closed at the end of the year.

15 3. Ames and Bragg are joined by Cowan, Duncan, and Elliott, and organize a Joint Stock Company capitalized at $40,000 to carry on the above business, Ames and Bragg together to receive $32,900 fully paid stock for their interest in the business, any fractional amount due to either of them to be paid in cash. Cowan subscribes 15 shares; Duncan, 25 shares; and Elliott, 20 shares, respectively, and pay 50% in cash.

Give the necessary Journal entries to open the books of the Company.

20 4. Give the Journal entries for the following transactions:—

(*a.*) A. L. Benson has made an assignment in favour of his creditors, who receive 65c. on the dollar. We receive a cheque for $650 in settlement of our claim.

(*b.*) At the close of the financial year a firm has book debts to the value of $8,650. Provide a sum equal to 6% of this amount for possible bad debts.

(*c.*) R. L. Smith owns a business in which his net capital is $4,000. R. Bennett buys a half-interest by investing $800 in the business and paying Smith personally $2,500.

(*d.*) A Company ends its financial year with a net profit of $8,464. The directors declare a Cash Dividend of 8% and a Stock Dividend of 5% on a paid-up Capital of $40,000. The balance of Profits are placed in a Reserve Account. The required cheques and stock certificates are issued.

Value.

25 5. From the following data prepare:—

(*a.*) Trial Balance.

(*b.*) Trading Account.

(*c.*) Profit and Loss Account.

(*d.*) Statement of Assets and Liabilities.

(*e.*) Statement of Distribution of Profits.

Goods on hand Jan. 1, 1920, $12,000; Purchases, $70,000; Sales, $86,000; Expenses, $2.500; Wages, $6,100; Cash on hand, $45; Cash in bank, $3,905; Salaries, $1,250; Rent, $900; Commission paid, $75; Sales rebates, $750; Sales discounts, $400; Purchase credit notes, $400; Purchase discounts, $560; Machinery, $11,000; Book debts, $8,000; Creditors, $7,000; Notes on hand, $2,000; Notes outstanding, $850; Interest on deposits, $100; Office furniture, $600; Repairs, $50; Freight, $200; Duty, $150; Advertising, $1,200; Discounts allowed, $200; Profit and Loss account credit, $1,415; Capital Stock, $25,000.

Inventories.

Stock on hand, $18,500; Advertising prepaid, $60; Wages unpaid, $300; Rent unpaid, $200; Depreciation on machinery 10%, on Office furniture 10%. Provide 8% of Accounts receivable for bad debt reserve.

The Directors instruct you to pay a cash dividend of 8% from Undivided profits account.

ACCOUNTANCY THEORY. (Time, 2 hours.)

Value.

10 1. State briefly the difference between Single and Double Entry systems of Bookkeeping. Which do you prefer? Give your reasons.

15 2. A. Johnston's account on your books shows a debit balance of $1,095. You draw on him at 90 days' sight. The draft is accepted June 1; 1921. On June 16th you discount the draft at the Bank at 8% and deposit the proceeds.
Give the necessary Journal entries to record these transactions.

10 3. How would you deal with items accrued and unpaid (such as rent, commission, wages) when closing the accounts of a business?

10 4. Give the ruling for a Stock or Share Ledger for a Limited Company. Show entries recording stock subscribed, calls paid, and stock transferred.

10 5. Explain the method by which the net result of a double entry Profit and Loss Account may be proved by the use of the Asset and Liability Statement.

6. Give Journal entries to show how you would record:—

5 (*a.*) The receipt of a consignment of apples on which you have paid freight charges by cheque.

5 (*b.*) The sale of the consignment, for which you have received in payment a sight draft, your own note taken at a discount, and an order on Henry Jones for the balance.

10 (*c.*) The closing of the consignment and the rendering of the account sales, charging commission and storage; and remitting the sight draft received above, the order on Henry Jones, and your cheque for balance.

Value.

15 7. Give the main reasons for the use of: (i) A Special Column Cash Book; (ii) A Synoptic Cash Journal; (iii) Self-balancing Ledgers; (iv) Triplicate Sales Invoice; (v) Bank Reconciliation Statement.

4 8. (*a.*) Rule a Purchase Book suitable for a business having three departments.

6 (*b.*) Name the books you would require for a limited company conducting a trading as well as a shipping and commission business.

BUSINESS CORRESPONDENCE. (Time, 2 hours.)

[NOTE TO PRESIDING EXAMINER.—*Please provide candidates with plain white letter paper.*]

[*Candidates may use either pen and ink or typewriter for any portion of their work.*]

Value.

17 1. Write a letter to a delinquent customer enclosing statement of account for $250. Review the facts, and ask for prompt attention and payment. Be courteous but firm.

15 2. 707 Granville St., Vancouver, B.C., March 18th, 1921. Edward J. Wells, Esq., 996 Broadway West, Vancouver, B.C. Dear Sir:—The insurance on your two-story frame dwelling, situated at 1002 Twelfth Ave., for $1,200, with the Aetna Fire and Marine Insurance Company, expires on March 28th.

Please send us your instructions in regard to the renewal of this policy.

We do not wish to leave our clients unprotected, but we cannot renew insurance unless we are directed to do so. Fuller, Denver and Company. J. R. Chelsea, Manager, Insurance Department.

Write a reply to this letter.

17 3. (*a.*) A lumber dealer in Calgary ordered from the Great West Lumber Company, Vancouver, a carload of No. 1, 4-in. fir flooring. In due time he received the shipment and the invoice therefor, but on examination found the flooring to be knotty and sappy.

Write a letter of complaint, making, however, some suggestions and a proposition as to a settlement of this difficulty.

17 (*b.*) Write the Great West Lumber Company's reply.

17 4. Name a line of business and state an oft-occurring event in connection therewith that would justify the use of a "form paragraph" in the correspondence. Write out a good form paragraph to be used under the circumstances.

17 5. "It is seldom that one finds a business in which some use is not made of a booklet, catalogue, or folder, and often the preparation of such material is left to the correspondent."

Describe the various considerations that enter into the issuing of a booklet or catalogue, and explain in logical order the different steps in its preparation.

Or

What is a circular letter?

Why are circular letters freely used?

State the general uses of such letters.

Describe the various points to be observed in the preparation of a circular letter.

Write a circular letter for *one* of the following purposes:—

(*a.*) Calling a meeting of the grocers of your town to discuss the question of uniform hours of opening and closing and a weekly half-holiday for employees.

(*b.*) Announcing to out-of-town customers a special sale of gloves.

(*c.*) On behalf of the law firm of Baker and Jackson, who make a specialty of collections, soliciting accounts for collection.

ECONOMICS AND CIVICS. (Time, 2 hours.)

Value.

6 1. (*a.*) Briefly outline the events as they occurred in the development of the industrial organization of England, which is known as the "Industrial Revolution."

4 (*b.*) Mention some new economic factors which appeared as a result of these changes.

2. Discuss the economic relations between Price and Value under:—

6 (i.) Considerations which determine Value.

6 (ii.) Considerations which determine Price.

3 3. (*a.*) Explain clearly what is meant by "Production."

8 (*b.*) Name the various factors which co-operate in the process of production and tell what each contributes in making the finished product.

5 (*c.*) What do you mean by the "Expenses of Production"?

3 4. (*a.*) What do Economists mean by the term "Distribution"?

6 (*b.*) Upon what principle do they advocate that distribution should be based? Explain.

5 (*c.*) How far is this principle adhered to under present economic conditions?

8 5. (*a.*) Applying your knowledge of the principles of Economics, explain as fully as you can:—

(i.) The causes of present unemployment.

(ii.) The reasons for the high rate of exchange between Canada and the United States.

10 (*b.*) Write brief explanatory notes on the following: Marginal Utility and Disutility; the Law of Diminishing Returns; Competitive Profits; Real Income; the Origin of Labour Unions.

7 6. (*a.*) Give your reasons why the Federal System of government is most suitable for Canada.

10 (*b.*) Outline the various subjects which are under the control of:—

(i.) The Federal Government.

(ii) The Provincial Government.

(iii) The Municipal Government.

5 7. (*a.*) Describe fully how the machinery of government is carried on by means of the Party Government System.

5 (*b.*) Explain fully how the revenue of the country is obtained by (i) Direct Taxation, (ii) Indirect Taxation.

3 (*c.*) What is meant by a "Protective Tariff"?

LAWS OF BUSINESS. (Time, 2 hours.)

Value.

4 1. (*a.*) Define a Contract. Give the main points requisite to a valid Contract.
(*b.*) Give your opinion on the legal points of the following transactions with reasons for your answers, quoting the Statutes where possible:—

4 (i.) A offers B a horse for $200 and agrees to give him until next evening to consider. In the meantime A sells the horse to C. B sues for breach of Contract. Will he succeed?

4 (ii.) X buys an automobile from Y for $1,300 on the understanding that he pays $100 a month. After making the first payment X returns the automobile. Can Y force him to pay?

4 (iii.) A goes with B to a bank and says, "Advance B $1,000 as a loan, and if he does not pay it I will." If B fails to pay can the bank collect from A?

4 2. (*a.*) In what respects does a Chartered Bank differ from: (i) A Private Bank; (ii) A Trust and Loan Company?

3 (*b.*) Explain how the Bank Act guards against loss to the public through banks becoming insolvent.

4 (*c.*) Compare the security given depositors with that given note holders.

4 3. (*a.*) What is meant by the Statute of Limitations? Why was it enacted?

4 (*b.*) How may a Statute-barred debt be revived? How would you use this knowledge to prevent an item in a book account being outlawed?

2 (*c.*) What debts are not affected by this Statute?

4 4. (*a.*) Define Partnership. State the two prime tests of Partnership.

8 (*b.*) Describe fully the four kinds of Partners under: (i) Name; (ii) Investment; (iii) Liability; (iv) Place in firm; (v) Share in results.

4 (*c.*) Smith, a special partner, while on a pleasure trip, takes advantage of an opportunity and buys the stock of a bankrupt firm. What effect will this have on his legal standing as a partner?

4 5. (*a.*) Henderson buys from you some household furniture for $650 and offers you a note at six months or a Chattel Mortgage. Which would you accept? Give reasons for your answer.

4 (*b.*) What steps would you take to maintain your security under a Chattel Mortgage: (i) If the Mortgagor removes the property to another district; (ii) If the Mortgagor fails to pay at maturity?

4 (*c.*) In a Mortgage on real estate explain what is meant by: (i) Foreclosure; (ii) Personal Covenant.

5 6. Adams sells Brown a typewriter for $200, which amount is to be paid in ten equal monthly payments, the first payment to be made on July 1st. Adams instructs you, as his book-keeper, to write a promissory note to meet these conditions and giving him the right to resume possession of the machine in case Brown fails to meet his payments. Write the note.

4 7. (*a.*) State the advantages that a business, which has been carried on as a Partnership, gains by incorporating as a Joint Stock Company.

8 (*b.*) Compare the Liability of: (i) A General Partner; (ii) A Special Partner; (iii) A Shareholder in a Bank; (iv) A Shareholder in any other Joint Stock Company.

Value.

5 (*c.*) Explain what is meant by: (i) Authorized Stock; (ii) Subscribed Stock; (iii) Watered Stock; (iv) Preferred Stock; (v) Stock Dividend.

5 8. (*a.*) You have completed arrangements for the purchase of a house and lot in Vancouver. State in detail what steps you would take to satisfy yourself that the vendor can give you a clear title.

3 (*b.*) Explain what is meant by: (i) An Indefeasible Deed; (ii) A Quit Claim Deed; (iii) A Tax Sale Deed.

5 (*c.*) State fully the advantages of the Torrens System of Land Transfer.

UNIVERSITY OF ILLINOIS LIBRARY

PENMANSHIP. (Time, 1 hour.)

1. Make one copy:—

"Although we interviewed many applicants, few of them seemed to possess anything but a superficial knowledge of business letter writing. Even applicants who had had considerable experience in correspondence work seemed to think that the only requirement was to dictate grammatically, to master routine quickly, and to learn the various prices, terms, adjustments, and other facts and information requested by customers. They didn't seem to comprehend the finer points of business-building letters.

"If we had been able to find a dozen top-notch correspondents with an appreciation of the true possibilities of business letters, they could practically have named their own salaries.

"Competent correspondents seemed so scarce that we finally decided to establish a systematic course of training for all new correspondents, in order to give them a clearer understanding of the broad principles of letter writing, and to teach them not to use unnecessary words, stilted expressions and rambling phrases, but to give their letters personality and a touch of human interest which would drive them straight to the mark, creating friendly feeling and good will wherever they were read.

"We had to show these people that their job was not simply to 'handle correspondence' and to clean up their desks at the end of the day, but that their task was to develop new markets, to bring back old customers who had drifted away, to collect money from accounts long past due, to keep up the fighting spirit of our salesmen on the road, and to turn complaints into orders.

"So we organized a class ———"

(System.)

2. Write one line of each of the following: (8.), %, +, @, ;, #, c, —, $, *, ?, (a.) &.

3. Make one copy:—

The sources and the value of Canadian imports for the year 1918 are shown in the following table:—

By Countries.	1918.
United Kingdom	$ 72,879,109
Australia	6,084,963
British East Indies	17,026,095
British Guiana	5,088,972
British South Africa	1,331,842
British West Indies	8,930,109
Hongkong	2,343,958
Newfoundland	3,287,340
New Zealand	7,014,313
Other British Empire	1,371,069
Argentine Republic	1,726,489
Brazil	1,128,616
China	1,867,405
Cuba	2,034,654
France	3,754,761
Italy	642,071
Japan	13,184,893
Netherlands	582,507
United States	738,142,064
Other foreign countries	18,533,670

4. Make one copy:—

DIRECT FOREIGN BANKING FACILITIES.

South and Central America, Cuba and the West Indies.

We have *direct* connections with the leading financial institutions in Argentina, Uruguay, Chile, and Brazil, and have, in addition, a special representative in Buenos Aires. We cover other countries of South America, Central America, and the West Indies, through our affiliated institution, the Mercantile Bank of the Americas, which has branches and connections as follows:—

COLOMBIA—Banco Mercantil Americano de Colombia: Bogota, Barranquilla, Cartagena, Medellin, Manizales, Girardot, Cali, Honda.

PERU—Banco Mercantil Americano del Peru: Lima, Arequipa, Chiclayo, Callao.

VENEZUELA—Banco Mercantil Americano de Caracas: Caracas, La Guayra.

BRAZIL—American Mercantile Bank of Brazil: Para, Pernambuco.

NICARAGUA—National Bank of Nicaragua: Managua, Bluefields, Leon, Granada.

HONDURAS—Banco Atlantida: La Ceiba, Tegucigalpa, San Pedro Sula, Puerto Cortez.

CUBA—Banco Mercantil Americano de Cuba: Havana.

Agencies in Ecuador, Bolivia, Costa Rica, Salvador, Guatemala.

SHORTHAND DICTATION.

[NOTE TO PRESIDING EXAMINER.—*Please provide candidates with plain white letter paper and No. 7 envelopes.*]

[NOTE.—*The Examiner will read each section twice; first, rapidly, and secondly, at the rate of one hundred and thirty words per minute. Candidates will write at the second reading only. When all the dictation has been given, the candidates will make either a typewritten or a pen and ink transcription of their notes and enclose each letter in a separate envelope, on which must be placed the proper address as if for mailing. The time required by each candidate for making the transcription will be noted by the Presiding Examiner. Both shorthand notes and transcription are to be handed in.*]

Value.

13 1. Victoria, B.C., June 15, 1921. Mr. J. N. Hudson, Nanaimo, B.C. Dear Sir: We have your inquiry of the 12th and are mailing to you under another cover a (32) catalogue of our various products. The prices listed in the catalogue are those at which the machines are sold to users.

Our local agent, Mr. S. E. Richards, will call upon you in (65) a short time to assist you in the selection of a machine that will meet your requirements. Yours very truly (85).

28 2. Vancouver, B.C., February 10th, 1921. Mr. Howard B. Allen, 400 Miller Ave., Calgary, Alta. Dear Mr. Allen: We are enclosing a statement against the Keystone Power Company, 1142 (32) Manitoba Street, your city, in the amount of $935, which we shall ask you to proceed to collect unless you hear from us by wire by 11 o'clock Monday (65) morning. Our reason for asking this slight delay is that a remittance may possibly come to hand Monday morning. If it does, we would not care to have the account presented to (97) them through your office. We shall wire you early Monday morning if a cheque is received. If you do not hear from us by 11 o'clock, kindly follow the matter up in the (130) usual manner.

These people were always prompt in their payments, but have repeatedly ignored our recent letters and have given no explanation whatever for their delay in remitting. Our relations with them (162) have always been most friendly, but their attitude does not leave any other course than this open to us. Very truly yours (184).

12 3. Kelowna, B.C., May 19, 1921. Miss Julia Henderson, The Jack Pines, West Bank, B.C. Dear Madam: We are informed by the Peterborough Canoe Company that you have written them (32) concerning their canoes.

We are the sole agents in this locality for their product and have just received a full line of their new canoes. We shall be pleased to have you call (65) and look them over. Kindly inquire for Mr. Shepard when you come in. Yours very truly (81).

19 4. Vancouver, B.C., October 18, 1920. Messrs. Stone and Mason, Bank of Hamilton Building, City. Gentlemen: A reinspection of the electrical equipment in premises located at 876 King Street (32) was made on October 15, 1920. Our inspector reported the equipment defective and recommended the changes noted on the attached sheet.

The hazard of electricity, when used on a defective installation, is (65) such that unless the improvements recommended are made within the next thirty days, we shall be compelled to recognize the hazard in your insurance rate.

The changes recommended should be made by (97) a responsible electrician. We trust that we shall hear from you within a few days to the effect that the changes referred to will be made without delay. Yours very truly (128).

28 5. Montreal, P.Q., June 11th, 1921. Mr. James M. Taylor, Nelson, B.C. Dear Sir: Please write frankly and let us know what you think of Municipal Bonds as an (32) investment for your own needs. Some people believe that they can afford to take speculative chances with their money.

Personally, we do not believe in investing money in a speculative security which is (65) sometimes called "a business man's investment." Why a business man should be supposed to find it desirable to lose his money any more than a widow or an executor of a trust (97) fund, we fail to understand. An investment is either safe or it is, at least to some degree, unsafe.

We are extremely desirous of establishing business relations with you because we know Municipal (130) Bonds are safe and our clients will never have occasion to reproach us in the future. You may not be in the market at present, but we would like to hear from (162) you so that we could feel that we have convinced you of the merits of Municipal Bonds. Yours very truly (182).

STATUTE LAW. (Time, 2 hours.)

Value.

5 1. (*a.*) Explain what is meant by "Holder in due Course," and tell how his title differs from that of any other holder. In what cases does this special claim not apply?

3 (*b.*) How would you word a note in order to make it: (i) Negotiable by delivery; (ii) Negotiable by endorsement; (iii) Non-negotiable?

2 (*c.*) Explain the significance of the words "Value received" on a note.

2. A draft for $300 was drawn at 30 days' sight by W. Adams on C. Brown, Calgary, favour of M. Cray, and was accepted qualified as to time. It has been endorsed by "blank" endorsement when negotiated to W. Downs; by "qualified" to H. Elliott; for waiving protest to L. Franks; for guarantee to W. Grant; and by restrictive to A. Student.

8 (*a.*) Show the draft, face and back.

3 (*b.*) Give the names of the parties liable, in the order of their liability.

5 (*c.*) If the draft is not paid on the due date, state what steps you would take to enforce collection. What would be the result if you delayed action for a day or two?

12 3. State in order the steps to be taken to complete the incorporation of a Joint Stock Company under: (i) A Dominion Charter; (ii) A British Columbia Charter.

6 4. (*a.*) Describe the documents which must be filed with the Registrar of Joint Stock Companies in order to secure incorporation in British Columbia.

6 (*b.*) Explain the three modes of forming an incorporated company in this Province.

6 (*c.*) Show clearly the difference between a "Private Company" and a "Public Company" incorporated in this Province.

15 5. State briefly the instructions contained in the Dominion Companies Act for: (i) Changing the name; (ii) Increasing or reducing the Capital Stock; (iii) Obtaining further powers; (iv) Borrowing money; (v) Commencing business.

15 6. Outline briefly the steps a company must take under the British Columbia Companies Act: (i) To allot shares; (ii) To change its name; (iii) To alter the objects of the Company; (iv) to reduce its Capital Stock; (v) to wind up the Company.

4 7. (*a.*) Outline the information which must be given in the annual report.

10 (*b.*) In the British Columbia Companies Act what is meant by the following terms: (i) Extra-provincial Company; (ii) Share warrants; (iii) Prospectus; (iv) Special resolution; (v) Extraordinary resolution.

TYPEWRITING.

[NOTE TO PRESIDING EXAMINER.—*Please provide each candidate with plain white letter paper and one sheet of carbon paper.*]

[NOTE.—*Candidates are allowed 5 minutes to read over this paper. Time allowed for Section A, 15 minutes. Section B is to be written in full and the time taken by each candidate to be recorded by the Presiding Examiner. Write each part of Section B on a separate sheet of paper, and hand in carbon copies with originals. A carbon copy of Section A is not required.*]

Value.

50

Section A.

ADVANTAGES OF CARD RECORDS OVER OTHER FORMS, SUCH AS BOUND BOOK AND LOOSE LEAF.

Fundamentally, the situation of Card Records versus the other forms is this:—

The bound book record is as old as modern accounting.

The loose leaf record was a logical step forward.

The card record is the evolution and the higher development of record keeping.

As is always true, the older form gives way slowly to newer ones. Arguments against the new form are being worn down, however, by the distinct superiority of the card record. It is significant that, little by little, loose leaf manufacturers are adding card records and equipment to their product, while the card record manufacturers are abandoning the sale of loose leaf records.

Be that as it may, the bulk of the records of the next business generation will be card records. Still, a legitimate field will always exist for the loose leaf.

The chief points favouring card records are:—

1. *Elasticity.*—The bound book has no elasticity. The loose leaf is limited to a certain size, beyond which it becomes absolutely too bulky for convenience. The card record can expand to any size, without ever becoming difficult to handle.

2. *Perpetuity.*—A bound book carries dead records as long as there is a single live record left. When it is full, a new record book must be used, with constant back reference and confusion. The card record is perpetually alive, as only live records are kept on hand, dead records being removed and filed elsewhere. The loose leaf enjoys this advantage also, but is less convenient.

3. *Easier to Handle Than Other Forms.*—Any book form of record is more awkward than a card record. The leaves of bound books and loose leaf records are flimsy. The books are heavy. There are many operations wasted even in turning to accounts, where the leaves are indexed. Bound books, and especially loose leaf books, are generally bulky and thick. Large records require many books. This causes more operations and much moving and shifting of books. Card records overcome this. There is a distinct economy of energy in the use of card records.

4. *Easier to Keep in Strict Alphabetical or Other Order.*—This is impossible in a bound book without serious waste of space and awkward complications. The loose leaf is satisfactory in this regard as long as it is small. As it gets larger it becomes more and more difficult to use. A card record can be more readily arranged or rearranged than any other form of record.

Value.

5. *In a Card Record Drawer or Tray You Place Only the Cards That Are Needed.*—As only live records are kept there, it is always condensed to the minimum size. This is not true of the bound books.

A loose leaf system has the same advantage as the card record in this regard, but in a lesser degree; and it is more difficult to shift loose leaf records from one binder to another. In this connection, also, if a loose leaf record sheet becomes filled while a man is working on it, he must stop, loosen the binder, take out the old sheet, insert a new one and tighten up the binder again before going on. In a card record a new card is easily inserted—a single operation versus at least five—(generally more).

6. *Very Much More Can Be Done with Cards* than with loose leaf or bound books, in the way of indexing, classifying, cross-referencing, and signalling.

7. *More Than One Person May Work on a Card Record at the Same Time.*—This is not true of book records (bound or loose leaf), without loss of time and frequent interruptions.

8. *In a Given Office Space a Greater Number of Card Records Can Be Used* than is possible with book or loose leaf records.

9. *One Clerk Can Do More on a Card Record* than in a book or loose leaf form. A card record is a distinct time saver. This means greater accuracy and fewer clerks on a large record, and less time of one man on a small record.

10. *The Card Record Is a Definite Saver of Physical Labour.*—One of the factors of mental accuracy is freshness. Fatigue, however slight, impairs the mental efficiency of the employee. Therefore, devices that reduce the physical effort of a man employed in keeping records will increase his value to his employer.

11. *The Card Record Is Generally Actually Less Expensive* than the other forms of records, particularly the loose leaf records. Over a continued period of time the card record is especially economical in the actual dollars-and-cents cost, to say nothing of its convenience and the saving of time and labour.

(Macey.)

50 *Section B.*

Vancouver, B.C., May 25, 1921. Mr. Thomas C. King, 723 Quadra St. Victoria, B.C. Dear Sir: We are very sorry indeed to learn from your letter of the 17th that you have met with financial reverses, and also regret that through an oversight you have allowed your policy to become lapsed.

The company stands ready at any time to help a policy-holder carry his insurance. As you have already made three full premium payments on this policy, you are entitled to a loan value of $111. If you do not desire to borrow any money on the policy to pay the present year's premium, we shall be willing to take your note for the amount of the premium, to become due in thirty, sixty, or ninety days. If you have any cash available, you can send it in, and we shall forward you a note for the difference between the full annual premium and the amount of your remittance. By taking advantage of this offer, you will not need to impair the loan value of your policy. Please let us hear from you. Sincerely yours.

Specifications Model C Drill.

Length, including chuck and Screw Feed .....16 in.
Length, including chuck only .....14 in.
Weight, including chuck and Screw Feed .....22 lb.
Weight, including chuck only .....21 lb.
Weight, equipped with sleeve for No. 1 Morse taper drills .....19 lb.
Capacity in steel or similar metals .....0 to ½ in.
Capacity for tapping in cast iron or sheet steel .....0 to ½ in.
Feed of Screw Feed .....2½ in.
Speeds running idle (two speeds).....250–500 R.P.M.
Consumption under load on 110 volts .....350 watts
Wound for any voltage .....50 to 250 volts
(Carried in stock for 110 and 220 volts.)
Current from ordinary drop cord either A.C. or D.C.

Equipment.

Regular Equipment.—Regular equipment furnished with Model C Drill includes 10-foot cord and attachment plug, handle and a ½-inch chuck for S.S. drills.

Special Equipment.—A ½-inch geared chuck interchangeable with our standard chuck. A special chuck for taking square shank wood bits interchangeable with our standard chuck. The screw feed attachment. A special sleeve for attaching to drill spindle for use with No. 1 Morse Taper drills.

When ordering always *specify your voltage.*

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Third-year Course, Household Science.

CHEMISTRY. (Time, 2 hours.)

[*All questions are of equal value. Answer any* seven.]

1. What is the source of the principal gaseous fuels? Discuss the advantages of each gas as a fuel.

2. Make a drawing of apparatus that could be used for the preparation of carbon monoxide from carbon dioxide. State what each part of the apparatus is used for. What is the action of carbon monoxide upon the human system?

3. What is the source of the ammonia water of commerce? Show by means of a drawing how ammonia may be prepared in the laboratory.

4. Iron is sometimes a bivalent element, sometimes a trivalent one. What will be the formulæ of the corresponding oxides, chlorides, and sulphates?

5. What is indicated by the terms "hydrocarbon," "acid salt," and "radicle"?

6. What do you understand by "degrees of hardness" as applied to water? How can permanently hard water be softened? Illustrate your answer by means of a chemical equation.

7. Explain fully the process known as saponification. How is this process related to that known as hydrolysis? How can a sample of soap be tested for the presence of soda ash and of sodium silicate?

8. What do you understand by an emulsifying agent? Discuss methods of removing fat-stains from fabrics. What properties should be possessed by a solvent that is to be used in this connection?

COOKERY—THEORY. (Time, 2 hours.)

Value.

4 1. (*a.*) In canning explain the difference between the *hot-pack* method and the *cold-pack* method.

4 (*b.*) Which do you recommend for canning vegetables? Give reasons.

4 (*c.*) Discuss the points leading to success in jelly-making.

6 2. Explain the use of bicarbonate of soda in *two* of the following:—

(*a.*) With molasses in ginger bread.

(*b.*) With sour milk in biscuits.

(*c.*) With tomato in cream soup.

(*d.*) With cheese in scallops.

3 3. (*a.*) What are the chief differences in the cooking of tender and tough cuts of meat?

3 (*b.*) Sketch a side of beef and mark on it in Roman notation three tough cuts and in Arabic three tender cuts.

3 (*c.*) Below the sketch name the cuts and mention how you would serve them.

5 4. How long should the following cook:—

(*a*) A beef tongue (4 lb.); (*b*) mutton stew (2 lb.); (*c*) roast sirloin (6 lb.); (*d*) tenderloin steak (¾ in. thick); (*e*) steamed salmon (3 lb.); (*f*) baked trout (4 lb.); (*g*) dumplings; (*h*) carrots; (*i*) spinach; (*j*) beets; (*k*) soft cooked eggs in the shell; (*l*) sponge cake; (*m*) scalloped rice and cheese; (*n*) bread; (*o*) plain boiled macaroni; (*p*) pumpkin; (*q*) pumpkin pies; (*r*) gems.

Value.

8 5. Give the important points (with reasons) leading to success in combining and cooking *two* of the following:—

(*a*) Baked custard puddings which contain starchy materials; (*b*) omelets; (*c*) breakfast cereals; (*d*) soup stock.

6 6. List the full market order for serving eight persons the following menu:—

Tomato Rice Consomme.
Crackers.
Biscuit Crust Meat Pie. Mashed Potatoes.
Bread.
Fruit Salad. Plain Cake.
Coffee.

4 7. Describe the changes flour undergoes in any *two* of the following:—

(*a*) Bread; (*b*) pie crust; (*c*) fruit cake; (*d*) doughnuts; (*e*) dumplings.

50 Marks for practical work.

DRAWING AND DESIGN. (Time, 2 hours.)

Value.

50 (*a.*) The drawings for the year should be placed in a folder and laid on your desk. These will be collected and marks awarded.

50 (*b.*) Make a design of triangular shape 6" wide, taking the motif from the flower provided. The design to be suitable for embroidery and to be placed on the vest of a garment. Show the stitches on the design and finish in colour.

DIETETICS. (Time, 2 hours.)

Value.

15 1. What are the chief points to be considered in the discussion of the dietetic value of any food? After each give your reasons why that point is worthy of consideration.

15 2. Discuss the food value of any *three* of the following:—

(*a.*) Rare and well-cooked meats.
(*b.*) Graham and patent white flour yeast bread.
(*c.*) Rolled oat porridge and shredded wheat.
(*d.*) Pies and fruit salad with light cake as desserts.
(*e.*) Poached eggs and fried eggs.
(*f.*) Home canned or commercially canned fruit.
(*g.*) Greens or roots as table vegetables.

9 3. Name the types of baking-powders you know and briefly discuss them as lightening agents from the standpoint of health.

5 4. (*a.*) Explain fully "The physiological energy value of 1 lb. of meat is 1,100 calories."

15 (*b.*) Discuss present standards of the food value of any *three* of the proximate principles of foods and give your authority.

15 5. (*a.*) Write out sample balanced menus for one day's meals for a high-school girl who has opportunity to get a warm luncheon.

Value.

5 (*b*.) Discuss warm and cold luncheons.

5 6. (*a*.) Discuss the value of beef tea and milk drinks for an invalid on fluid diet.

3 (*b*.) Name six ways of serving milk as a drink.

5 7. (*a*.) In choosing a dietary, why should we aim at simplicity?

3 (*b*.) What foods would you aim to include every day in all family dietaries?

5 8. What are the chief points in serving vegetables in order to obtain their greatest food value?

DRESSMAKING AND MILLINERY. (Time, 2 hours.)

TEXTILES.

Value.

12 1. (*a*.) Explain the use of the microscope in discovering the qualities and properties of silk.

(*b*.) What is meant by artificial silk, vegetable silk, waste silk, raw silk? Explain the use of each.

(*c*.) "The weave of silk is of paramount importance and ranges through all kinds of designs from plain to the most intricate Jacquard patterns." Explain this paragraph.

3 2. Give three simple tests for doubtful linen.

DRESSMAKING.

10 1. (*a*.) What measurements are required to draft a pattern of a one-piece dress by straight-line system?

(*b*.) Name ten of the most important processes in making a woollen dress with roll collar and long sleeves. Skirt 2 yards round the bottom.

(*c*.) Explain the method of applying collar to bodice and skirt to band.

8 2. (*a*.) A ready-to-wear serge suit which cost $57.50 lasted one year. Compare this as to cost and value with a suit made from cloth at $4.50 per yard and made at home by a dressmaker at $4 per day.

(*b*.) How would you alter a waist pattern that measured too small in the bust? a sleeve that was too short?

MILLINERY.

4 1. Name four of five most important stitches used in millinery and give an example of the use of each.

8 2. Describe the making of a black velvet sailor-shaped hat, using the following headings: (*a*) Drafting pattern, (*b*) making of shape, (*c*) facing, (*d*) covering, (*e*) trimming, (*f*) lining. The whole cost not to exceed $7.

5 3. (*a*.) Make a quick pencil sketch of the hat you describe.

(*b*.) How would you clean a white straw hat?

50 Marks for practical work.

PHYSIOLOGY, HYGIENE, AND HOME-NURSING. (Time, 2 hours.)

Value.

4 1. What special care is necessary to ensure that a child's skeletal system will be strong and well developed?

4 2. Discuss *two* of the following:—

(*a.*) Shoes for general wear.

(*b.*) The use of face creams and powders.

(*c.*) Care of the hair.

(*d.*) Sweets in the diet.

9 3. Discuss the structure and functions of *one* of the following:—

(*a.*) The digestive system.

(*b.*) The circulatory system.

(*c.*) The excretory system.

(*d.*) The nervous system.

4 4. Write as fully as you can upon *one* of the following topics relating to the hygiene of the nervous system:—

(*a*) Concentration; (*b*) worry; (*c*) sleep; (*d*) change of air and scene.

HOME SANITATION.

16 1. Write upon *two* of the following:—

(*a.*) Disposal of house wastes in a city.

(*b.*) Disposal of house wastes in the country.

(*c.*) The best finishing for kitchen floors.

(*d.*) Ventilation of a house by natural means.

(*e.*) The care of the basement or cellar.

(*f.*) Disinfectants for home use.

4 2. Explain any *four* of the following: Sills, house-drain, girders, soil-pipe, trap, chemical closet, window-weights.

HOME-NURSING.

9 1. Write on *one* of the following:—

(*a.*) The transfer of disease and means to prevent it.

(*b.*) The reaction of the body against disease and the means that can be taken to assist such reaction.

(*c.*) Malnutrition in children and the means to prevent it.

50 Marks for practical work.

Third-year Course, Technical.

ARITHMETIC AND ALGEBRA. (Time, 2 hours.)

[N.B.—*Omit any* one *of the last* three *questions. Logarithmic tables and graph paper are provided.*]

Value.

10 1. (*a.*) Given $\frac{1}{v}-\frac{1}{u}=\frac{\mu-1}{r}$, express in simplest form each quantity separately in terms of the other quantities. If $v=5$, $u=10$, $r=10$ find μ.

(*b.*) If $A=\pi R^2$, $C=2\pi R$, express A in terms of C.

10 2. (*a.*) Express $\frac{1+\sqrt{2}}{\sqrt{3}-1}$ with a rational denominator and find its value correct to 3 decimal places.

(*b.*) Simplify $(ab^{-1})^{-2}\times(bc^{-1})^{-\frac{1}{2}}\times(ca^{-1})^{\frac{3}{2}}$.

10 3. (*a.*) Factor the following :—

$x^2+2x-120$.

$(3x+y)^2-5y(3x+y)+6y^2$.

x^4+x^2+1.

$x^{12}+1$.

$12x^2-13x-35$.

(*b.*) Simplify :—

$$\frac{1}{a-b}\left\{\frac{(a-b)^3+(b-c)^3}{a-c}-(a+c-2b)^2\right\}.$$

12 4. Solve the equations :—

(*a.*) $51x^2-53x=21$ (correct to 2 decimal places).

(*b.*) $x^2-20=y^2-5=xy$.

13 5. A wheel has 720 teeth and is rotated 12.6 times per second. A narrow beam of light just passes between 2 teeth, falls on a mirror 8663 metres away, and when it returns, is intercepted by one of the teeth between which it had passed. Find the speed of light.

16 6. The following quantities seem to obey a law of the form $W=aP+w$. Find the probable values of a and w.

W	11	13.2	15.7	17.9	20.2	22.5	24.7	27.2	29.3	31.7
P	1	2	3	4	5	6	7	8	9	10

16 7. Draw a quadrant of a circle radius $3\frac{1}{2}''$ and draw the tangents at its extremities. Use Simpson's Rule (taking 10 divisions) to find the area included between the circumference and the tangents. Find the percentage error in your result.

13 8. Find the number of gallons per minute which flow past a section of a circular pipe of diameter d inches if the speed of the water is f feet per second. How long would it take to fill a spherical vessel of diameter b feet? Complete the two calculations when $d=11.2$, $f=22.8$, $b=7.9$.

13 9. Construct a graph to give the relation between centimetres and inches (1 inch = 2.54 cm.) Thence determine the number of cm. in 3.3 inches and the number of inches in 8.2 cm.

13 10. The time of vibration of a pendulum varies as the square root of the length. If the time is 1.4 seconds when the length is 49 cm., what will be the time of vibration for a pendulum of length 100 cm.?

CHEMISTRY. (Time, 2 hours.)

[*The value of each of the first* eight *questions is 12. Answer any* six.]

(Fe = 56; S = 32; H = 1; O = 16; N = 14; Cu = 63.)

1. Write a short description, with sketches, of the commercial manufacture of nitric acid.

2. Carbon occurs in many *allotropic* modifications. What is the exact meaning of this statement?

3. By what process could you show that water is a compound? How would you proceed to ascertain its quantitative composition?

4. Dalton is often called the "Father of Quantitative Chemistry." Why? What great discoveries did he make?

5. Why is a knowledge of *valency* essential before *equations* can be used in chemistry? Write fully on this topic.

6. Carbon unites with oxygen in two definite proportions. What are the two compounds produced? Show that there are reasons for thinking that there *can* be only two such oxides of carbon.

7. "Water is the most general solvent known." How would you proceed to show that this statement is true?

8. You desire to prepare a sample of pure ammonium nitrate. Give in detail every stage of the process you would adopt.

[*The value of each of the following questions is 14. Answer any* two.]

9. Choose two of the following subjects and write clearly yet briefly on each: (*a*) The blast-furnace; (*b*) the Bessemer converter; (*c*) open-hearth process; (*d*) cementation process.

10. A manufacturer desires to produce 10 tons of 95% sulphuric acid. How much iron pyrites (FeS_2) and what weight of steam must he provide?

11. Complete the following equation and give *all* the information it conveys to you:—
$Cu + HNO_3 = Cu\ NO_3 + H_2O + NO$.

12. 32 grams of sulphur are completely burnt in pure oxygen gas and the gas collected. When measured at 17° C. and 750 mm. pressure the volume is found to be 24.04 litres. From this data calculate (correct to the nearest whole number) the atomic weight of oxygen.

DRAUGHTING. (Time, 2 hours.)

Value.

50 (*a*.) The drawings for the year should be placed in a folder and laid on your desk. These will be collected and marks awarded.

50 (*b*.) Make a freehand sketch of the machine detail supplied and mark the measurements thereon. From this sketch make a finished drawing.
(Project: Such machine parts as a lathe-dog, tool-post, or scribing-block to be used.)

ELECTRICITY. (Time, 2 hours.)

[*The value of each of the first* eight *questions is 12. Answer any* six.]

1. You may choose any *two* of the following instruments to illustrate a short essay on electrical measuring instruments: (*a*) An ammeter; (*b*) a d'Arsonval galvanometer; (*c*) a voltmeter.

2. I wish to measure the resistance of a cold carbon lamp. What instruments should I use? How should I connect up the circuits?

3. Write a full description of the *Brown and Sharpe* wire table. Show if you can how the important points in this table can be easily carried in the memory.

4. Why is A.C. used for long-distance transmission in preference to D.C.? Write fully.

5. What is a *sine curve?* What is its value to an electrical engineer? How would you proceed to obtain the *curve* of an A.C. generator?

6. Define volt, cell, ampere, series, root-mean-square.

7. Give a complete wiring diagram for a motor-generator charging set for charging *storage-batteries.*

8. Write a short essay on the three important types of D.C. generators.

[*The value of each of the following questions is 14. Answer any* two.]

9. How does the ordinary house-meter measure the power supplied to a house? Give sketches and show that you understand not only its construction but the unit it measures.

10. What is the modern conception of the term: *A current of electricity?* Write clearly as to a beginner in the subject of electricity.

11. What would be the combined resistance of three 110-ohm, two 220-ohm, and two 440-ohm carbon lamps all connected in parallel? If such a *bank* of lamps were connected to 110-volt mains, what would be the total current flowing in the circuit? Give a sketch of the *bank* and its connection to the mains.

12. Write a clear description of a *storage-cell.* How is such a cell charged? Give all chemical equations which will render your answer any clearer.

GEOMETRY. (Time, 2½ hours.)

Value.

10 1. If a straight line falling upon two straight lines makes the alternate angles equal to one another, prove that the two straight lines are parallel.

12 2. Show that equal chords of a circle are equally distant from the centre. A chord of a circle is of constant length but its position changes. A point is taken on it at a fixed distance from one of its ends. Find the locus of this point.

11 3. A lighthouse facing N. projects a beam of light covering an angle of 25°. A vessel sailing N.W. at 12 knots sees the light for 10 minutes. Find graphically the ship's shortest distance from the lighthouse. (1 knot = speed of 6,080 feet per hour.)

10 4. Prove that the angle subtended by a diameter of a circle at any point of its circumference is a right angle.

11 5. ABCD is a parallelogram. All its angles are bisected internally and the bisectors form by their intersections a figure HKLM. Prove that HKLM is a rectangle.

Value.

11 6. A man 6 feet high stands x feet from the foot of an electric-light standard. The light is 35 feet high and his shadow is 8 feet long. Find x. Show clearly your calculation and check your answer by a drawing to scale.

11 7. AB is a diameter of a circle and P is any point on its circumference. The tangent at P meets AB produced at D. DE the perpendicular to AD meets AP produced at E. Prove DP = DE.

12 8. Draw a straight line AB 2 in. long and lay off by construction the following angles: ABC = 30°, ABD = 75°, ABE = 120°, all on the same side of AB. Make BC = 3 in., BD = 3.5 in., BE = 2.75 in. Join ACDE and reduce the figure thus obtained to a triangle, vertex at D and base in AB produced. Find its area.

12 9. A regular pyramid 3 in. high stands on a pentagonal base each edge of which is 2 in. long. Using ruler, compasses, and protractor, draw (full size) one of the side faces of the pyramid.

MECHANICS. (Time, 2 hours.)

[*The value of each of the first* eight *questions is 12. Answer any* six. Eight *questions constitute a full paper.*]

1. Sketch and describe the action of: (*a*) The suction and lift pump; (*b*) the suction and force pump; and (*c*) the plunger pump.

2. The distance between the centres of two bodies is 36 inches. The weights of the two bodies being 17 and 90 lb. respectively, where is the centre of gravity of the combination? Define clearly any terms you use and show fully your calculations.

3. Explain clearly the following, giving sketches of each: (*a*) Bevel gears; (*b*) pitch circle; (*c*) worm gear; (*d*) rack and pinion; (*e*) back-lash; (*f*) driver and follower.

4. Assuming that 1 cu. ft. of water weighs 1,000 oz., what would be the total force tending to force upward a cube of wood of 2 ft. edge and specific gravity 0.5 when sunk to a depth of 30 ft. in salt water of specific gravity 1.004?

5. Explain the exact purposes served by a fly-wheel and a governor on an engine.

6. Describe clearly, with sketches, all the forms of barometers you have seen used.

7. Sketch and describe a steam-pressure gauge.

8. At the point of *cut-off* in the cylinder of an engine the volume of steam in the cylinder is 405 cu. in. The pressure as shown by the indicator diagram is 125 lb. per sq. in. What will be the pressure shown on the diagram when the piston reaches the end of its stroke if the volume of the cylinder be 1,200 cu. in.? Explain.

[*The value of each of the following questions is 14. Answer any* two.]

9. What do you understand by *absolute pressure* as used in steam-engine practice? Explain clearly how this pressure could be nearly approached in an engine. Show sketches to illustrate your answer.

10. Sketch and describe clearly a steam engine *indicator*. Give an example of an indicator card and show what information an engineer could obtain from such a diagram.

11. What do you understand by the *modulus of elasticity?* Give any example you can to show its use in mechanics.

12. Write a short essay showing why *perpetual motion* is an impossibility.

PHYSICS. (Time, 2 hours.)

[*The value of each of the first* eight *questions is 12. Answer any* six.]

1. People sometimes say that water-pipes burst when the *thaw comes*. Prove that this is not true by showing when, and why, the bursting actually takes place.

2. Sketch and describe the action of the ordinary kitchen stove and *boiler* for heating water for domestic purposes. By which of the methods of transmission is the heat transferred from the fire to the *boiler?*

3. How do you account for the fact that the furniture of a *sun-parlour* becomes distinctly warm whilst the glass of the windows remains quite cool?

4. Water-mains are being laid in the street. Both ends of the pipe are open. A workman is hammering at one end. The length of the pipe is about 500 feet. If you place your ear at the distant end and the workman gives a series of very slow blows, what could you learn about the transmission of sound?

5. Describe any *reed* instrument you have studied. Sketch and carefully show how the *reed* produces a *musical* sound.

6. Define clearly: (*a*) Mono-chromatic light; (*b*) light wave; (*c*) ray; (*d*) spectrum; (*e*) interference.

7. Motorists often use a *rear-vision* mirror of the diminishing type. Explain clearly how it is that they see everything in its true relative position and only diminished in size?

8. Sketch and describe any apparatus you have seen or used to prove the phenomenon of *refraction.*

[*The value of each of the following questions is 14. Answer any* two.]

9. Define very carefully the following terms: (*a*) Temperature; (*b*) heat; (*c*) specific heat; (*d*) latent heat; (*e*) sensible heat; (*f*) B.t.u.; (*g*) calorie; (*h*) expansion; (*i*) calorimeter; (*h*) heat transference.

10. Using as an illustrative apparatus *the siren*, explain clearly the meaning of the term *interval.*

11. Describe the production of sound by *bowing* a violin. Keep in mind the following points: (*a*) The number of strings; (*b*) tuning; (*c*) fingering; (*d*) rosin; (*e*) the harmonics; (*f*) why the violin is such a beautiful instrument of music.

12. Write a clear account of the cinematograph projection lantern, explaining how it is that we see (with a good instrument) an apparently stationary scene with movement of the figures in it.

TRIGONOMETRY. (Time, 2 hours.)

[N.B.—*Logarithmic tables are provided.*]

Value.

8 1. (*a.*) If A is an acute angle show that tan A is greater than sin A.
(*b.*) Without using tables find the numerical values of the six trigonometrical ratios of 30° and 60°.

7 2. The string of a kite is 250 feet in length. How high is the kite above the ground when the string, supposed stretched tight, makes with the ground an angle $\tan^{-1}\frac{24}{7}$?

15 3. Show that there are two triangles having the following parts: $a=6$, $b=8$, $A=34°$. Solve the triangles.

Value.

13 4. If the sides of a triangle are 297.3, 437.1, and 248.6 units respectively, find the largest angle.

15 5. (*a.*) Show that $\sin (A - B) = \sin A \cos B - \cos A \sin B$ in the case where A and B are acute angles.

(*b.*) Prove $\cos 2\theta = \dfrac{1 - \tan^2 \theta}{1 + \tan^2 \theta}$.

(*c.*) Prove $\dfrac{\sin \theta + \sin \phi}{\sin \theta - \sin \phi} = \tan \dfrac{1}{2}(\theta + \phi) \cot \dfrac{1}{2}(\theta - \phi)$.

15 6. A circular cylinder of radius 2 feet is lying on a horizontal plane. Leaning across it at right angles to its axis is a plank 7 feet long. If the lower end of the plank is on the plane and is 4 feet from the line of contact of the cylinder and plane, find the height of the upper end of the plank above the plane.

12 7. Calculate as accurately as your tables permit:—

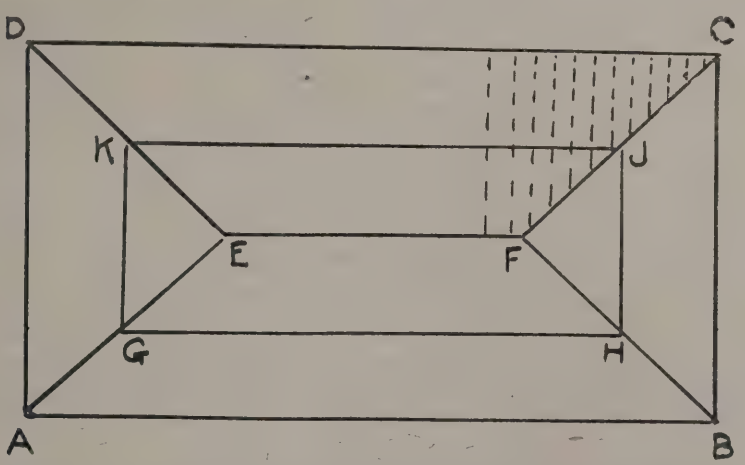
$$\frac{37.93 \times 257.1^{\frac{1}{2}}}{\sqrt[5]{7.98} \times \sqrt[4]{7.673}}.$$

15 8. A man at sea-level observes that the elevation of a mountain is 32° 11′; after walking directly towards it for a mile along a road inclined at an angle of 10° to the horizontal, he finds the elevation of the mountain to be 47° 23′. Find the height of the mountain.

WOOD AND METAL WORK—THEORY.

WOODWORK. (Time, 1½ hours.)

[*Answer* three *questions only. Nos. 1 and 2 together with either 3 or 4.*]



Value.

50 1. The plan of a hipped roof is given. The roof is 54′ long, 26′ wide, and rise ¼ span. The purlins are shown by G, H, J, K, and the jack and common rafters are indicated by dotted lines. Draw the plan and elevation of one truss to a scale of ¼″ to 1′, and from them obtain the following:—

(*a.*) The true length of the hip rafter A, E.

(*b.*) The correct bevels or "cuts" for the top and lower ends of the hip rafter.

(*c.*) The bevels for the jack and common rafters.

Value.

30 2. Place the suitable dimensions on the various roof members and name them. Prepare a list showing the quantity of timber required in the construction of the roof.

20 3. Make freehand sketches explaining the construction of three joints in one of the above trusses.

20 4. Give neat sketches showing the meaning of the following terms: Dog-legged stair; Hyperbola, Ogee, or Cyma recta moulding; Tusk tenon-joint.

METALWORK. (Time, 1½ hours.)

[*Answer* three *questions only. Nos. 1 and 2 together with either 3 or 4.*]

Value.

40 1. Mark on the blue-print provided the following parts of the lathe: Back-gear lever; head-stock; face-plate; tail-stock; apron hand-wheel; cross-feed lever-knob; lead screw; lathe-bed.

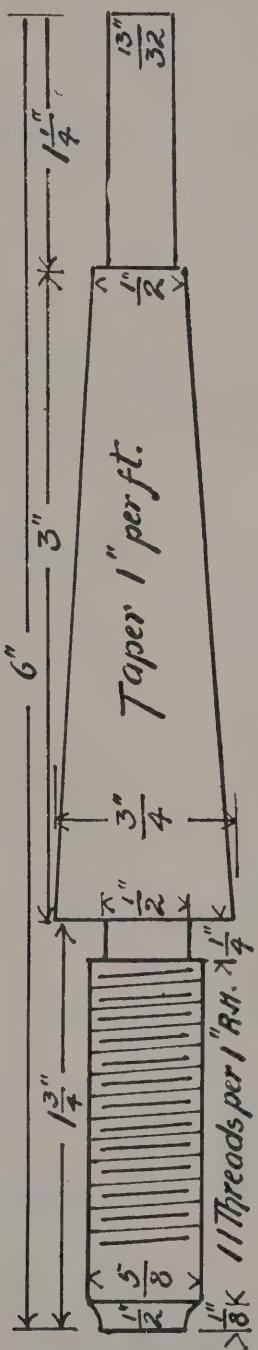
40 2. Give the rule for gearing a lathe for screw-cutting. If the lead screw has eight threads per inch and a bolt is required having eleven threads per inch, what gear would you use?

20 3. Make sketches of three seams in sheet-metal work. Explain why fluxes are used in soldering sheet metal and name those you have used.

20 4. In drawing out stock of any shape it should first be hammered square. Why is this? Explain by words and sketches how you could weld an upset-head bolt 9 inches in length.

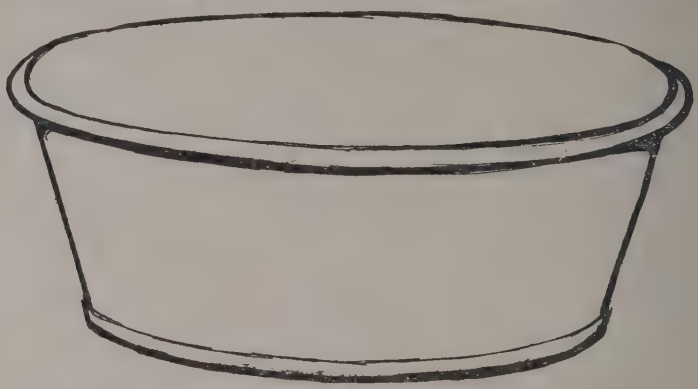
PRACTICAL MACHINE-WORK. (Time, 1½ hours.)

Problem: From stock supplied make a spindle to measurements given below.



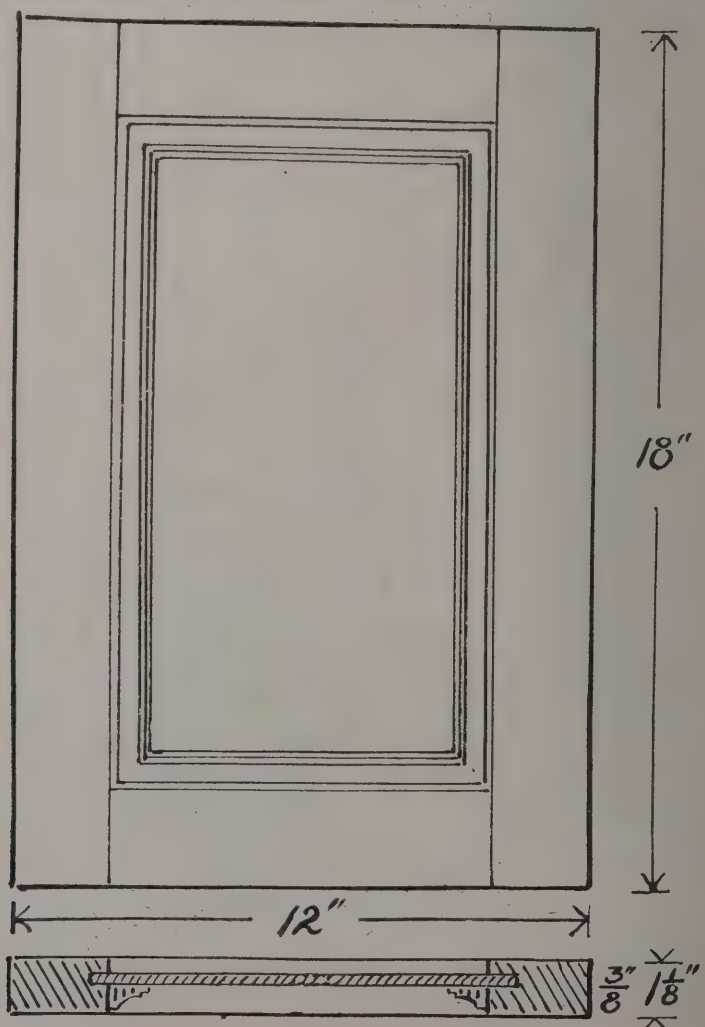
PRACTICAL SHEET-METAL WORK. (Time, 1½ hours.)

Problem: Develop the pattern and make the pan illustrated below. Diameter of top, 6¼"; diameter of bottom, 4¾"; height, 2⅝". Bottom to be burred and soldered; top to be wired.



PRACTICAL WOODWORK. (Time, 3 hours.)

Problem: From the stock and measurements supplied make a panelled door. Joints to be haunched tenons.



University Matriculation (Junior).

AGRICULTURE. (Time, 2 hours.)

[*All questions have equal value. Answer* six *questions only.*]

1. Describe some insect affecting the crops in your neighbourhood and suggest preventive methods.

2. Discuss how the best layers may be selected in a flock of pullets.

3. State, with reasons, your choice of cattle breed and give an account of its typical features.

4. What precautions should be observed in the storing and shipping of milk?

5. Mention your locality and sketch the handling, from planting to harvest, of one of its most important field crops.

6. Discuss principles of selection and the method of seed production in connection with any flower or vegetable of your own choice.

7. State what you understand by crop rotation, and explain why it should be practised.

8. Describe the planting, cultivation, and harvesting of the fruit crop which is most profitably grown in your vicinity.

ALGEBRA. (Time, 2 hours.)

Value.

9 1. (*a.*) Factor:—

(i.) $a^4 - a^2 - 9 - 2a^2b^2 + b^4 + 6a.$

(ii.) $a^3 + 3a^2b + 3ab^2 + 2b^3.$

(iii.) $a^4b - a^2b^3 - a^3b^2 + ab^4.$

4 (*b.*) Find as simply as possible the value of $\frac{.5433^2 - .4567^2}{.5433 - .4567}$.

6 2. (*a.*) Divide $\frac{2x}{x+y} + \frac{y}{x-y} - \frac{y^2}{x^2-y^2}$ by $\frac{1}{x+y} + \frac{x}{x^2-y^2}$.

5 (*b.*) Reduce $\frac{x^{\frac{2}{3}} - 4\sqrt[3]{x^{-2}}}{\sqrt[3]{x^2} + 4 + 4x^{-\frac{2}{3}}}$.

6 3. (*a.*) Show that $\frac{1}{\sqrt{16 + 2\sqrt{63}}} + \frac{1}{\sqrt{16 - 2\sqrt{63}}} = 3.$

4 (*b.*) Simplify $\sqrt[3]{21 + 7\sqrt{2}} \times \sqrt[3]{21 - 7\sqrt{2}}.$

5 4. (*a.*) Solve $\frac{6\sqrt{x} - 11}{3\sqrt{x}} = \frac{2\sqrt{x} + 1}{\sqrt{x} + 6}$.

5 (*b.*) Solve $5x^2 - 15x + 11 = 0.$

13 5. The length of a field exceeds its breadth by 30 yards. If the field were square but of the same perimeter, its area would be $\frac{1}{24}$ greater. Find the sides.

10 6. (*a.*) Solve $\left.\begin{matrix} x^2 - xy = -6 \\ y^2 + 3xy = 10 \end{matrix}\right\}$.

Value.

8 (*b.*) Solve $\frac{2x-27}{x-14}+\frac{x-7}{x-8}=\frac{x-12}{x-13}+\frac{2x-17}{x-9}$.

13 7. A number has three digits, the units being $\frac{1}{2}$ of the tens and $\frac{1}{3}$ of the hundreds. If 396 be substracted from the number, the digits are reversed. Find the number.

12 8. Prove that the points (3, 2), (8, 8), (−2, −4) lie on a straight line. Find its equation.

Prove algebraically and graphically that it cuts the x-axis at a distance of $1\frac{1}{3}$ from the origin. (Graph paper will be supplied.)

BOTANY. (Time, 2 hours.)

[NOTE.—*(a.) Illustrate your answers by the use of diagrams. (b.) All questions are of equal value. Answer* three *only.*]

1. Write an account of stems under the following heads, giving examples:—
   (*a.*) Structure in relation to the work of support and of food conduction.
   (*b.*) Describe three stems which are specialized as food-storage parts of the plant.

2. Give an example of an alga, a fungus, a moss, and a fern. Tell briefly how each:—
   (*a.*) Obtains its food materials.
   (*b.*) Reproduces.
   (*c.*) Tides over adverse conditions such as drought or cold.

3. Give five examples of Conifers. How would you distinguish each from the others? Describe the leaves as to their shape, structure, and arrangement, and tell how they are related to conditions of living. Describe the cones and give an account of how the seeds are produced and scattered. Write a note on the economic importance of each conifer mentioned.

4. (*a.*) Mention a plant of each of the following families: Ranunculaceæ, Rosaceæ, Ericaceæ, Labiatæ, Compositæ. Describe and compare the corollas of the five plants named.

   (*b.*) Name a plant of each of the following families: Gramineæ, Cruciferæ, Rosaceæ, Leguminosæ, Compositæ. Describe and compare the carpels and fruits of these plants.

CHEMISTRY. (Time, 2 hours.)

[*All questions are of equal value. Answer* seven *only.*]

1. Describe an experiment by means of which you could prove the statement that in any chemical reaction the total weight of the reacting substances is the same after the reaction as before.

2. Explain carefully what contributions Dalton made to the Science of Chemistry.

3. At a temperature of 22.5° C. and a pressure of 750 mm. of Hg., what volume will be occupied by the hydrogen that is set free by the action of 2.5 grams of sodium on water, the weight of a litre of hydrogen being 0.09 gm. at 0° C. and 760 mm. pressure? (H = 1.008; Na = 23.05.)

4. What acids do you know that contain the element chlorine? Describe the preparation and properties of one of these acids.

5. What significance does the number 22.4 (litres) have when applied to the volume of a gas? Upon what hypothesis does the application of this number to gas volumes depend for its usefulness?

6. Write chemical equations illustrating the interaction of manganese dioxide and hydrochloric acid, of steam and red-hot iron, and of sulphuric acid and bleaching-powder.

7. If you were given a piece of marble in the laboratory, how would you proceed to prepare a solution of calcium hydroxide?

8. Write as fully as you can regarding the occurrence and the properties of the element sulphur.

ENGLISH COMPOSITION. (Time, 2 hours.)

Value.

25 1. Write a well-constructed paragraph of about a page on *one* of the following topics:—

(*a.*) Gareth, the Scullion.

(*b.*) The Wrestling Match in "As You Like It."

(*c.*) Plans for the Summer.

60 2. Write an essay of not less than two pages on *one* of the following:—

(*a.*) An Old English Christmas ("Sketch Book").

(*b.*) Nelson's Greatest Qualities as an Admiral.

(*c.*) The Character of Silas Marner.

(*d.*) Queen Elizabeth as depicted by Scott.

5 3. (*a.*) Punctuate the following sentence:—

There is one pursuit commerce one type the business man one idea that of increasing wealth.

10 (*b.*) With as few changes as possible, rearrange in an effective paragraph the following passage concerning the life of a peasant:—

Fourteen hours of sun and labour and hard fare—now tell him what to do—to go straight to his plank bed in the cowhouse—to eat a little more dry bread, borrow some cheese or greasy bacon—munch it alone, and sit musing until sleep came—he who had nothing to muse about—I think it would need a very clever man indeed to invent something for him to do, some way for him to spend his evenings—read—to recommend a man to read after fourteen hours of burning sun is a mockery—darn his stockings would be better.

ENGLISH LITERATURE. (Time, 2 hours.)

[*Candidates will answer Section A, and* either *Section B* or *Section C.*]

SECTION A. POEMS OF THE ROMANTIC REVIVAL.

Value.

20 1. Discuss, in about two pages, three characteristic qualities of Tennyson's poetry as illustrated by the selections studied in this course.

14 2. Write on any *two* of the following (about a page on each):—

(*a.*) The ideas that most appeal to you in "Intimations of Immortality."

(*b.*) Keats' style in "The Eve of St. Agnes."

(*c.*) The spirit of revolt in the poems of Shelley.

Value.

16 3. Make a brief note of explanation on any *four* of the following quotations, naming the author and poem from which each is taken:—

(*a.*) "Yet the will's somewhat—somewhat, too, the power—
And thus we half-men struggle."

(*b.*) "The Moon of Mahomet
Arose, and it shall set:
While, blazoned as on heaven's immortal noon
The cross leads generations on."

(*c.*) "Have sight of Proteus rising from the sea;
Or hear old Triton blow his wreathèd horn."

(*d.*) "It may be we shall touch the Happy Isles,
And see the great Achilles, whom we knew."

(*e.*) "Lest you should think he never could recapture
The first fine careless rapture."

SECTION B. "THE MERCHANT OF VENICE."

21 1. In about three pages discuss the character of Portia. Use short quotations whenever possible.

14 2. Write on *two* of the following (about a page on each):—

(*a.*) The meaning of the song beginning, "Tell me where is fancy bred."

(*b.*) The purpose served by the introduction of the Prince of Morocco and the Prince of Arragon.

(*c.*) The character of Antonio.

15 3. Give the context of each of the following and explain:—

(*a.*) "We freely cope your courteous pains withal."

(*b.*) "For the close night doth play the runaway
And we are stay'd for at Bassanio's feast."

(*c.*) "Give him a livery
More guarded than his fellows: see it done."

(*d.*) "With purpose to be dress'd in an opinion
Of wisdom, gravity, profound conceit."

(*e.*) "A golden mind stoops not to shows of dross."

SECTION C. "HENRY V."

21 1. Discuss, in about three pages, the character of Henry V. as revealed to you in the following long speeches delivered by him in the course of the play:—

(*a.*) The address to the army before Harfleur, beginning:—
"Once more unto the breach, dear friends, once more."

(*b.*) The lines on ceremony, beginning:—
"O ceremony, show me thy worth."

(*c.*) The reply to Westmoreland, beginning:—
"No, my fair cousin,
If we are mark'd to die, we are enow
To do our country loss."

In the course of your answer quote a passage of about ten lines from one of these extracts.

14 2. Write on *two* of the following (about a page on each):—

(*a.*) Falstaff's connection with the play.

(*b.*) The purpose and dramatic effectiveness of the chorus.

(*c.*) The best drawn humorous figure in the play.

Value.

15 3. Give the context of each of the following and explain:—

(*a.*) "I stay but for my guidon: to the field."

(*b.*) "For indeed these three antics do not amount to a man."

(*c.*) "Each battle sees the other's umber'd face."

(*d.*) "I have no cunning in protestation."

(*e.*) "For, hearing this, I must perforce compound
With mistful eyes, or they will issue too."

HISTORY. (Time, 2 hours.)

[*Answer* four *questions only.* Two *are to be selected from Part A and* two *from Part B. All questions have equal value.*]

A.

1. Estimate the contribution of Egypt to the civilization of mankind during the period 4000–3000 B.C. and also during the Empire.

2. Sketch the leading features of Athenian civilization during the Empire.

3. Under the following heads, trace the history of the Roman Republic from its foundation to the end of the Punic wars:—

(*a.*) Political Struggles.

(*b.*) Conquests.

4. Account for the decline of Roman civilization during the Empire and outline the chief causes of its fall.

B.

5. What were the chief characteristics and activities of the Mediæval Church?

6. Write on the origin and results of the Crusades, and give an account of the First Crusade.

7. Discuss the Renaissance in Europe under the following heads:—

(*a.*) Art and Literature.

(*b.*) Explorations and Discoveries.

(*c.*) Religious Movements.

8. Show how Absolute Monarchy triumphed in France under Louis XIV. and failed to triumph in England under the Stuarts.

GEOMETRY. (Time, 2½ hours.)

[*N.B.—Draw neat diagrams, use printed capitals, and give authorities.*]

Value.

10 1. (*a.*) Enunciate two theorems in each of which, from data given relating to the angles of a triangle, a conclusion is drawn regarding the sides of the triangle.

(*b.*) Prove *one* of these in full.

10 2. If two triangles are equal in area, and stand on the same base and on the same side of it, they are between the same parallels.

Value.

16 3. ABC is a given triangle and X is a given point. Draw a triangle equal in area to ABC, having its vertex at X and its base in the same straight line as BC. State your construction and give a theoretical proof.

14 4. The angles made by a tangent to a circle with a chord drawn from the point of contact are respectively equal to the angles in the alternate segments of the circle.

18 5. From any external point P two tangents are drawn to a given circle touching it at A and B. A and B are joined and P is joined to the centre of the circle, X. PX cuts the chord AB at Y. Prove that the rectangle contained by PX and XY is equal to the square on XB.

14 6. To draw an isosceles triangle having each of the angles at the base double of the vertical angle.

18 7. AB is a fixed chord of a circle and AC is a movable chord passing through A. If the parallelogram CB is completed, find the locus of the intersection of its diagonals.

FRENCH GRAMMAR. (Time, 2 hours.)

Value.

10 1. Put the following sentences in the plural (*all parts* of the sentence are to be given in the plural as far as the sense permits) :—
Ce beau bateau traverse la Manche.
Le cheval qui galopait au loin était effrayé.
Pourquoi ne répondis-tu pas?
Il accrocha son fusil à un clou.

10 2. Put the following sentences in the plural:—
Qu'est-il devenu?
Il l'a vu.
S'est-il blessé?
Son frère s'en est repenti.
Il s'est coupé le doigt.

10 3. Substitute in the following a personal pronoun for the portions printed in italics:—
Parlez *de la littérature française.*
Va *à l'école.*
Il a envoyé *la lettre à son frère.*
Il m'a donné *la pomme.*
Vous l'avez vu *au match de football.*
Voici *la Tour Eiffel.*
Parlez *à votre père de mes ennuis.*

25 4. Give:—

(*a.*) The imperfect indicative of *ressembler à son frère* (possessive of the same person and number as the subject).

(*b.*) The future of *concevoir une mauvaise idée de leur hospitalité.*

(*c.*) Present subjunctive of *choisir, voir, devenir, s'en aller, s'y attendre.*

(*d.*) Present indicative, first person singular and first person plural only of *voir, dire, descendre, dormir, se repentir, couvrir.*

(*e.*) Past participle of *concevoir, aller, couvrir, dormir, mourir, dire, souffrir, voir, vivre.*

Value.

10 5. Reply in French in complete sentences to the following questions:—

(*a.*) Où demeurez-vous?

(*b.*) Qu'avez-vous fait pendant les vacances de Paques?

(*c.*) Combien de frères et de soeurs avez-vous?

(*d.*) Quel sport préférez-vous?

(*e.*) N'aimez-vous pas le français?

10 6. (*a.*) Give the comparative and superlative of une bonne mère; un mauvais moment.

(*b.*) Give the adverbs corresponding to vif, brusque, fier, parfait, majestueux, naturel.

10 7. Put the word for this (or that) before the following words: Mur, oiseau, homme, femme, oiseaux, hommes, femmes, horloge, murs, horloges.

15 8. Make the necessary changes in the following verbs printed in italics:—

(*a.*) Il est malade depuis qu'il *être* rentré à la maison.

(*b.*) J'ai arrosé les fleurs afin qu'elles *être* plus fraîches.

(*c.*) Je le lui ai donné de crainte qu'il *revenir*.

(*d.*) Il avait dix ans lorsqu'il *perdre* sa mère.

(*e.*) Pour qu'on vous *obéir*, obéissez aux lois.

(*f.*) Quoi qu'il *faire* froid je dois sortir.

(*g.*) Je le punirai à moins qu'il ne le *faire*.

(*h.*) Elle s'amusait pendant que les vaches *brouter* l'herbe.

(*i.*) Quand j'*avoir* de l'argent je vous payerai.

(*j.*) Je lui demande s'il *venir*.

(*k.*) Je serais venu si j'en *avoir* eu le temps.

(*l.*) Il est sorti parce qu'il *faire* beau temps.

(*m.*) Il y a huit ans que Jean *être* élève au Lycée.

(*n.*) Il y a longtemps qui je le *désirer*.

FRENCH TRANSLATION. (Time, 2 hours.)

[N.B.—*Candidates should work slowly and revise carefully. Every sentence is framed to illustrate some point of grammar or syntax. Careless work entails serious loss of marks.*]

Value.

40 1. Translate into good English:—

Ce jour-là plus d'un Parisien a dû dire en rentrant chez lui le soir pour se mettre à table: "Quel singulier petit bonhomme j'ai rencontré aujourd'hui."

C'était justement une journée de la fin de l'hiver, une de ces journées tièdes et lumineuses qui, à Paris, souvent sont plus le printemps que le printemps lui-même. Il y avait beaucoup de monde dehors. Un peu étourdi par le va-et-vient bruyant de la rue, j'allais devant moi, timide, et le long des murs. Je me gardais bien de m'arrêter devant les magasins, et pour rien au monde je n'aurais demandé ma route.

Je marchai ainsi près d'une heure jusqu'à un grand boulevard. Il y avait là tant de bruit, tant de gens, tant de voitures, que je m'arrêtai presque effrayé. Comment me tirer d'ici? pensai-je en moi-même. Comment rentrer à la maison? Je risquais fort de rester là jusqu'au grand coup de trompette du jugement dernier, quand soudain Jacques parut à mes côtés. Il était aussi étonné que moi.

(N.B.—Tiède—mild, warm.)

Value.

60 2. Put into French:—

Louis—How long have you been in Bordeaux?

Harry—We have been here three weeks. We did not expect to stay so long when we left Paris. We are on the way to Pauillac.

Louis—You find the city so beautiful that you have decided to stay longer.

Harry—That was scarcely the reason. As our train was going along the banks of the Loire it was derailed. We were not injured, but very many others were less fortunate. Madame Dubois was so much agitated by the accident that she was long in recovering.

Louis—I hope she is better to-day.

Harry—Yes, she is in quite good health at last. But her illness was far from being the last of our misfortunes. The day after we arrived, Jean, Marcel, and I went walking to see the sights of Bordeaux. We were in the park. The weather was very hot. Marcel was hot and tired. He sat down on the grass. He did not notice that it had just been watered. He took a bad cold and has been very ill for a fortnight. The Bordeaux doctors are scarcely so good as the Paris ones.

Louis—Did you expect that?

Harry—You are laughing at me because I say what I think.

Louis—We have become accustomed to it. Parisians always think themselves superior to the inhabitants of any other city in the world. I hope that little Marcel is better.

Harry—Oh, yes, but we shall not be able to leave for Pauillac before Thursday. To-day is Monday. We have only four weeks' vacation. It would have been better to stay in Paris. We could have visited the Zoo every day, which would have been at once instructive and amusing.

GERMAN GRAMMAR. (Time, 2 hours.)

Value.

10 1. Add the correct case endings after the prepositions in the following:—

Mein Freund iſt mit ſein — Frau und ſein — Kind — (plural) auf d — Land gegangen. Er wird da während d — Sommer wegen ſein — Geſundheit bleiben. Ihr Haus liegt an — See neben ein — Wald. Die Kinder laufen durch d — Wald ohne ihr — Eltern und kommen nur zu ihr — Mahlzeiten nach d — Haus zurück.

6 2. (*a.*) Make a complete sentence out of each of the following pairs of sentences:—

(1.) Sie neckten ihn. Er war ſo klein. (weil.)

(2.) Sie kamen alle zuſammen. Sie ſchrieen und pfiffen. (Als.)

(3.) Sie wurden lange nicht einig. Sie ſetzten einen Tag zum Wettfliegen feſt. (Da.)

(*b.*) Turn the second sentence into a relative clause:—

(1.) Die Vögel hielten eine Verſammlung. Sie wollten einen König wählen.

(2.) Er verſteckte ſich in die Federhoſen des Adlers. Dieſer bemerkte es nicht.

(3.) Die Jüngere beſtand auf ihrem Entſchluß. Ihre Geduld ging zu Ende.

Value.

15 3. Change the infinitives in the following sentences to 3rd person singular—present, imperfect and perfect:—

(1.) Der Mann tragen das Kind.

(2.) Der Knabe eſſen ſein Butterbrot.

(3.) Das Mädchen verſtehen die Lehrerin.

(4.) Sein Vater ankommen heute.

(5.) Das Buch gefallen ihm.

12 4. (*a.*) Translate:—

Thank you. Give it to me. He showed it (masc.) to her. They introduced (vorſtellen) him to us.

(*b.*) Rewrite in the passive:—

Der Kutſcher holt den Wagen, Der Sohn erſchoß den Sperber.

(*c.*) Write the comparative and superlative forms of: Der hohe Baum. Er läuft ſchnell.

25 5. Complete the following sentences by inserting appropriate articles, giving correct endings to the adjectives and making the verbs agree—the verbs of the first sentence to be present tense; second, imperfect; third, perfect; fourth, pluperfect; fifth, future. Then rewrite the sentences in the plural throughout:—

(1.) — gut — Kutſcher holen — ſchön — Pferd und groß — Wagen.

(2.) — klein — Zaunkönig verkriechen in — dick — Federhoſen — ſtolz — Adler—.

(3.) — klug — Reiſender wünſchen — bequem — Platz an — warm — ofen zu haben.

(4.) Sein jünger — Bruder bitten um ſein — freundlich — Rat ſein — arm — Freund — halber.

(5.) — alt — Profeſſor zubringen — ganz — Sommer bei ſein — deutſch — Verwandt — in Berlin.

32 6. Translate:—

(1.) He must go to Victoria on Sunday at the latest.

(2.) The farmer, whose son shot the hawk, was angry.

(3.) Your book is larger than hers, but mine is the largest.

(4.) You may go home if you want to. (singular.)

(5.) It happened on Monday, the first of January, nineteen hundred and twelve, at half-past six.

(6.) He likes to play, but he prefers to read.

(7.) There are many beautiful pictures on the walls.

(8.) One morning, a farmer found that his horse had been stolen.

GERMAN TRANSLATION. (Time, 2 hours.)

Value.

48 1. Translate :—

(*a.*) Ein Reisender kam zitternd vor Kälte und ganz naß in ein Wirtshaus. Er wünschte einen Platz am warmen Ofen zu haben, um sich zu wärmen und seine Kleider zu trocknen. Dieser aber war besetzt. Da wandte er sich an den Wirt und sagte: Bringen Sie meinem Pferd ein Dutzend "Austern!" Der Wirt sah ihn erstaunt an und tat was der Reisende verlangt hatte. Zugleich verließen alle Gäste das Zimmer, um zu sehen, ob das Pferd die Austern fressen würde. Nun nahm er den besten Platz am Ofen und machte es sich bequem.

(*b.*) Da beschaut er sich der Menschen Tun und Treiben und liebt es wohl, sie auf allerlei Weise zu necken und sein Spiel mit ihnen zu treiben; denn das müßt ihr wissen, Rübezahl ist ein eigner Kauz, launisch, schadenfroh, heftig, wankelmütig; manchmal aber auch sehr gutmütig und edel; in einem Augenblick ganz weich von Herzen und im andern so hart wie Stein; heute ist er dein Feind, morgen dein Freund, wie's ihm gerade einfällt.

(*c.*) Und siehe, wie sie um eine Biegnng des Weges kamen, stand da — sie trauten ihren Augen kaum — ein Wirtshaus am Wege. An einem langen, kunstvoll geschmiedeten Arme, der über der Tür angebracht war, hing ein grüner Kranz und in seiner Mitte eine herrliche Traube, die schon, von ferne dem durstigen Wanderer entgegenlachte und ihn zur Einkehr einlud. In der Tür des Wirtshauses aber stand der dicke Wirt; eine rote Weste mit großen, blanken Knöpfen bedeckte sein stattliches Bäuchlein; die kurzen, dicken Beine staken in glänzend schwarzen Kniehosen, von denen die schönen roten Strümpfe recht säuberlich abstachen.

(*d.*) Als das Brautpaar aber freudestrahlend aus der Kirche trat, kam ihnen plötzlich der gute Kräutersammler entgegen, wünschte den beiden von Herzen Glück nnd gab der Braut eine blanke Münze in die Hand, indem er sprach: „Beschau sie oft, liebe Susi, und nimm dir dabei vor, stets deine guten Eigenschaften zu bewahren, so wirst du sicherlich das wahre unde echte Glück finden." — Kaum hatte er ausgeredet, so wuchs seine Gestalt riesengroß, um dann plötzlich in den Lüften zu verschwinden. „Rübezahl!" erscholl es plötzlich von aller Munde; denn alle wußten, daß es kein andrer gewesen war, als der Herr der Berge.

12 2. Translate (at sight) :—

Einst gab es große Not unter den Mäusen; denn die Katze war schlau, und es schien, als habe sie ihnen allen den Tod geschworen. Da kamen die Mäuse zusammen und hielten einen Rat. „Was fangen wir an?" sprach die älteste unter ihnen, „unsere Zahl wird täglich kleiner. Bald werden wir von der Erde verschwunden sein. Wie retten wir uns vor der Katze?" — „Nichts ist leichter als das," sprach eine junge Maus, „ich wüßte wohl zu helfen. Wir hängen der Katze eine Schelle an, dann mag sie kommen. Wir haben alle feine Ohren, und ehe sie uns erblickt, haben wir uns schnell verkrochen."

24 3. Translate :—

A poor robin came one day in winter to a farmer's window and pecked upon it because it was so cold outside. When the farmer's son noticed the little bird he opened the window and the robin flew into the warm room. They gave it something to eat, for it was hungry, and the bird soon became quite tame. It remained happily all winter in the house, but, when spring came and the sun shone bright, it became sad. Then the farmer opened the window again and the robin quickly flew out into the garden where it sat in a tree and sang.

16 4. Write in German a short description of the room you are sitting in.

GREEK. (Time, 2 hours.)

Value.

12 1. Decline in agreement: ὁ ἀγαθὸς ἄνθρωπος; πλοῖον μακρόν; ἡ μικρὰ σκηνή.

9 2. Decline in full: οὗτος (all genders), ἐγώ, σύ.

10 3. Illustrate by short sentences in Greek the common meanings of the prepositions διά and περί.

20 4. Give the principal parts of the following verbs: γράφω, βοάω, βούλομαι, πράττω, ἀκούω, φεύγω, ἐθέλω, λαμβάνω, δοκέω, ἡγέομαι.

7 5. How is a "prohibition" expressed in Greek? Give examples.

12 6. Conjugate in full:—

(*a.*) The present optative passive of τιμάω.

(*b.*) The present subjunctive middle of δηλόω.

(*c.*) The first aorist subjunctive active of λύω.

(*d.*) The pluperfect indicative passive of λείπω.

12 7. Translate into Greek:—

(*a.*) I fear they will destroy the bridges.

(*b.*) If he had done this, it would have been well.

(*c.*) We are leading him away that he may not do our friends harm.

(*d.*) I myself shall offer sacrifice in that village.

18 8. Translate into English:—

καὶ δή ποτε ἐν στενῷ καὶ πηλῷ ταῖς ἁμάξαις δυσπορεύτῳ ἔταξεν ὁ Κῦρος δύο ἄρχοντας τῶν Περσῶν λαμβάνειν τοῦ βαρβαρικοῦ στρατεύματος καὶ συνεκβιβάζειν τὰς ἁμάξας. ἐπεὶ δ' ἐδόκουν αὐτῷ σχολαίως ποιεῖν, ὥσπερ ὀργῇ ἐκέλευσε τοὺς περὶ αὐτὸν Πέρσας τοὺς καλοὺς κἀγαθοὺς συνεπισπεύδειν τὰς ἁμάξας. ἔνθα δὴ μέρος τι τῆς εὐταξίας ἦν θεᾶσθαι.

LATIN AUTHORS AND SIGHT TRANSLATION. (Time, 2½ hours.)

A.

Value.

12 1. Translate:—

Huic imperat, quas *possit, adeat* civitates horteturque, ut populi Romani fidem sequantur, seque celeriter eo venturum nuntiet. Volusenus perspectis regionibus omnibus, quantum ei *facultatis* dari potuit, qui navi egredi ac se barbaris committere non *auderet*, quinto die ad Caesarem revertitur quaeque ibi *perspexisset* renuntiat.

(*a.*) Account for the mood of *possit, adeat, auderet, perspexisset*, and for the case of *facultatis*.

11 2. Translate:—

Nam quod omni ex reliquis partibus demesso frumento pars una erat reliqua, suspicati hostes huc nostros esse venturos noctu in silvis *delituerant;* tum *dispersos* depositis armis in *metendo* occupatos subito adorti paucis interfectis reliquos incertis *ordinibus* perturbaverant, simul equitatu atque essedis circumdederant.

(*a.*) Parse *dispersos, metendo, ordinibus*, and give the principal parts of *delituerant*.

Value.

9 3. Translate:—

Caesar exposito exercitu et loco castris idoneo capto, ubi ex captivis cognovit quo in loco hostium copiae consedissent, cohortibus decem ad mare relictis et equitibus trecentis, qui *praesidio* navibus essent, de tertia vigilia ad hostes contendit, eo minus veritus navibus, quod in litore molli atque aperto deligatas ad ancoram relinquebat; et praesidio *navibus*que Q. Atrium praefecit.

(*a.*) Explain the case of *praesidio* and *navibus*.

8 4. Translate:—

Sed ea *celeritate* atque eo impetu milites ierunt, cum *capite* solo ex aqua *exstarent*, ut hostes impetum legionum atque equitum sustinere non *possent*, ripasque dimitterent ac se fugae mandarent.

(*a.*) Account for the case of *celeritate* and *capite*, and for the mood of *exstarent* and *possent*.

B.

14 1. Translate:—

'o socii, neque enim ignari sumus ante malorum,
o passi graviora, dabit deus his quoque finem.
vos et *Scyllaeam* rabiem penitusque sonantes
accestis scopulos, vos et *Cyclopea* saxa
experti: revocate animos, maestumque timorem
mittite; forsan et haec olim meminisse iuvabit.
per varios casus, per tot discrimina rerum
tendimus in Latium, sedes ubi fata quietas
ostendunt; illic fas regna resurgere Troiae.
durate, et vosmet rebus servate secundis.'

(*a.*) Write notes (not more than two lines) on *Scyllaeam* and *Cyclopea*.

10 2. Translate:—

Aeolus haec contra: 'tuus, o *regina*, quid *optes*,
explorare labor; mihi iussa capessere fas est.
tu mihi quodcumque hoc *regni*, tu sceptra Iovemque
concilias, tu das epulis accumbere *divom*,
nimborumque facis tempestatumque potentem.'

(*a.*) Write notes (not more than two lines) on *Aeolus*, *regina*, and explain the mood of *optes*, the case of *regni* and the form *divom*.

7 3. Translate:—

'parce metu, *Cytherea:* manent inmota tuorum
fata tibi; cernes urbem et promissa *Lavini*
moenia, sublimemque feres ad sidera caeli
magnanimum *Aenean;* neque me sententia vertit.

(*a.*) Write notes (not more than two lines) on *Cytherea*, *Lavini*, and *Aenean*.

9 4. Translate:—

constitit, et lacrimans 'quis iam locus,' inquit, '*Achate*,
quae regio in terris nostri non plena laboris?
en *Priamus!* sunt hic etiam sua praemia laudi;
sunt lacrimae rerum et mentem mortalia tangunt.
solve metus; feret haec aliquam tibi fama salutem.'

(*a.*) Write notes (not more than two lines) on *Achate*, *Priamus*.

(*b.*) Scan lines 1 and 2.

C.

20 Translate:—

Erat inter Labienum atque hostem difficili transitu flumen ripisque praeruptis. Hoc neque ipse transire habebat in animo neque hostes transituros existimabat. Augebatur auxiliorum cotidie spes. Loquitur in concilio palam, quoniam

Germani appropinquare dicantur, sese suas exercitusque fortunas in dubium non devocaturum et postero die prima luce castra moturum. Labienus noctu tribunis militum convocatis quid sui sit consilii proponit et, quo facilius hostibus timoris det suspicionem, majore strepitu et tumultu quam populi Romani fert consuetudo castra moveri jubet.

Palam—openly, publicly: Quoniam = cum causal. In dubium devocare—to risk. Fert—is.

LATIN GRAMMAR AND COMPOSITION. (Time, 2 hours.)

Value.

20 1. Write the ablative singular and the genitive plural of *hoc animal, quae vis, eadem navis, major res, totus exercitus.*

5 2. Compare *audax, acriter, diu, parum, similis.*

5 3. Write all the infinitives and participles of *fero.*

8 4. Write:—

(*a.*) The second singular future indicative of *eo.*

(*b.*) The third plural future indicative of *possum.*

(*c.*) The first singular present subjunctive of *volo.*

(*d.*) The first singular imperfect subjunctive passive of *capio.*

(*e.*) The first singular imperfect subjunctive of *fio.*

(*f.*) The third plural perfect subjunctive active of *jubeo.*

(*g.*) The second singular present imperative of *hortor.*

(*h.*) The second singular future indicative of *sequor.*

10 5. Write the principal parts of *consisto, accido, opprimo, desilio, adorior, ignosco, frango, adjuvo, meto, consuesco.*

10 6. Translate into Latin:—

By night; leap down (second plural imperative); on all sides; in a loud voice; it is best to do; at great risk; for what reason; according to custom; as bravely as possible; we are of good courage.

42 7. Translate into Latin:—

(*a.*) Obtaining suitable weather, he set out at dawn.

(*b.*) He used the same material for refitting the ships.

(*c.*) He showed what he wished to be done.

(*d.*) If they send hostages, we shall make peace.

(*e.*) So great a storm suddenly arose that we could not hold our course.

(*f.*) I shall leave you on the mainland to find out what is going on.

(*g.*) He thought it would be of great use to him if he only visited the island.

(*h.*) Learning his design, they promised to collect reinforcements.

(*i.*) Let us urge the neighbouring states to come to treat for peace.

PHYSICS. (Time, 2 hours.)

Value.	
5	1. (*a.*) Distinguish clearly the terms *relative density* and *specific gravity.*
5	(*b.*) The specific gravity of platinum is 21.5, of iridium 22.4. Find the volume of 1 Kg. of an alloy containing 9 parts of platinum to 1 part of iridium.
10	2. Describe fully an experiment to find the relative density of a solid that is lighter than water.
5	3. (*a.*) Discuss the two common types of wave-motion. Upon what does the intensity of a sound depend? Explain fully.
5	(*b.*) A man standing before a cliff shouts, and 3 seconds later hears the echo. How far is he from the cliff? (Temperature 10° C.)
10	4. Show clearly (use drawings) the difference in construction, working, and use of lift-pumps and force-pumps.
10	5. Describe an experiment to show the effect of pressure on the boiling-point. What practical applications are made of this in manufacturing? In high altitudes how do we overcome the difficulties which this change in the boiling-point creates?
10	6. How much heat is required to change 20 gm. of ice at — 10° C. into steam at 100° C.? (Specific heat of ice = 0.5.)
10	7. Explain fully what you understand by refraction and mention various phenomena which can be explained by this principle. (Make drawings.)
5	8. (*a.*) An object is placed in front of a convex mirror. Illustrate and describe the position and relative size of the image.
5	(*b.*) What is a lens? Draw and name the principal classes.
4	9. (*a.*) What is meant by electrical potential? What is the unit for measuring it and what is taken as the standard or zero?
6	(*b.*) What are the uses of a step-up and a step-down transformer? Where and why is each used?
5	10. (*a.*) Describe fully the apparatus necessary to decompose water by an electric current.
5	(*b.*) A constant current is passed through a silver voltameter for 15 minutes, and it is found that 5.031 gm. of silver have been deposited. What is the strength of the current?

University Matriculation (Senior).

ALGEBRA. (Time, 3 hours.)

Value.

7 1. If a, b, c, d are in continued proportion, show that $b+c$ is a mean proportional between $a+b$ and $c+d$.

8 2. Find two numbers in the ratio $1\frac{1}{2}$ to $2\frac{2}{3}$ such that when each is increased by 15, they shall be in the ratio $1\frac{2}{3}$ to $2\frac{1}{2}$.

9 3. The pressure of the wind on a plane area varies jointly as the area and the square of the velocity of the wind. If the pressure on 3 sq. ft. is 4 lb. when the velocity of the wind is 16 miles an hour, find the velocity of the wind when the pressure on 2 sq. yd. is 54 lb.

8 4. Find the quadratic equation each of whose roots exceeds by 2 the roots of the equation $2x^2+3x+5=0$.

10 5. In the following series find the sum to $2n$ terms and, where possible, to infinity :—

(*a.*) $3-2+\frac{4}{3}-\ldots.$

(*b.*) $1\frac{1}{4}-1\frac{1}{3}+1\frac{7}{12}-\frac{4}{5}+1\frac{1}{12}\frac{1}{2}-\frac{2}{5}+\ldots.$

10 6. The digits of a number which lies between 400 and 500 are in A.P., and the number is 70 times the sum of its digits. Find the number.

12 7. (*a.*) Simplify and express with positive indices :—

$$\sqrt[3]{\frac{(2a)^{-2}\,b^{\frac{3}{2}}}{a^{-\frac{1}{2}}(6b)^{-3}}}.$$

(*b.*) Find n when $\sqrt[3]{9^n \times 3^{n-1}} = 6^n \times 2^{-n} \times 3^{n+1}$.

12 8. (*a.*) Find in simplified form the coefficient of x^{-7} in the expansion of

$$(2x^2-\frac{1}{3x^3})^9.$$

(*b.*) Use the binomial theorem to evaluate $(1004)^{\frac{2}{3}}$ correct to 4 places o deci mals

10 9. (*a.*) Prove that $\log(MN) = \log M + \log N$.

(*b.*) Given $\log 2 = .30103$, $\log 3 = .47712$, $\log 7 = .84510$:—

(i.) Find x if $\log x = \bar{4}.47712$.

(ii.) Find the number of digits in $6^{37} \times 21^{14}$.

14 10. How many numbers of 5 digits can be formed, using the digits 0, 1, 2, 3, 4, 5, 6, 7: (*a*) if repetitions are allowed; (*b*) if no repetitions are allowed? In how many of the latter numbers will the digit 0 occur?

CHEMISTRY. (Time, 3 hours.)

[*All questions are of equal value. Answer* ten *only.*]

1. Describe three methods of preparing hydrogen. Illustrate these methods by means of chemical equations and line drawings. What volume of this gas measured at 748 mm. Hg. pressure and 22° C. can be obtained by acting on sulphuric acid with 14.5 grams of zinc? (Zn = 65.4; H = 1.008; S = 32.06; O = 16.00.)

12

2. Explain fully what is indicated by the terms "sublimation," "hydrolysis," "reversible action," and "exothermic reaction." Give examples.

3. Compare the physical and chemical properties of hydrogen chloride, hydrogen bromide, and hydrogen iodide.

4. Describe two methods for the preparation of chlorine and illustrate by means of chemical equations. How can you prove that the formula of chlorine is Cl_2? What is the result of the action of chlorine upon methane?

5. Write as fully as you can regarding the solubility under varying conditions of the sulphides of the common metals.

6. If 35.5 cc. of ammonia, measured at a pressure of 748 mm. Hg. and a temperature of 22.5° C., were entirely decomposed at 750° C., what volume would the resulting gases occupy under a pressure of two atmospheres?

7. Describe a method for the preparation of sodium carbonate. Show by means of chemical equations the various stages of the reactions involved. What are the characteristic properties and chief uses of sodium carbonate?

8. In what form does aluminium occur in nature? How can the metal be isolated on a commercial scale? What properties render the metal useful industrially?

9. What reaction takes place when ethyl alcohol and acetic acid are mixed? What effect will the addition of concentrated sulphuric acid have on this reaction? Show by means of equations how the above reaction is related to the process known as saponification.

10. What is the usual method of preparing a solution of hypochlorous acid? Discuss the properties of this acid and its application to the process of bleaching.

11. How can ethylene be prepared? Give its structural formula and explain the reaction between ethylene and iodine.

(A maximum of fifteen marks will be given for laboratory exercise-books.)

ENGLISH COMPOSITION. (Time, 3 hours.)

Value.

16 1. Write a full, coherent, and effective *paragraph* on *one* of the following topics:—

(*a.*) A character from Chaucer *or* Spenser.

(*b.*) An aspect of Spenser's allegory.

(*c.*) Classical influence upon English Literature in the age of Shakespeare (1564–1616).

Value.

16 2. Apply the principles of (*a*) paragraph coherence and (*b*) exposition in an examination of the following paragraph:—

"There was in Goldwin Smith that note, characteristic of the prophet, that you could not argue with him, for, like other prophets, he was eventually a solitary soul, and did his thinking alone, brooding in silence over all he read or saw, seldom influenced by others. When he began to deliver himself, it would hardly have startled one if the first sentence had been 'Thus saith the Lord.' Without the glowing intensity of Mazzini, he gave the same impression of unshakable conviction. The weakness of this splendid independence is that it often disables a man from following the movements of opinion in the world around him. As Mazzini would never admit that Italy could be free and prosperous except under a republic, Goldwin Smith continued to cling to the ideals and doctrines of his early manhood. Some of those doctrines have been proved to be sound. It would have been well for the British people if they had taken the advice he gave them forty years ago to reconstruct their House of Lords in a deliberate way before a party crisis arrived. But even before old age overtook him he had lost touch with British politics, though he continued to write about them with the old confidence. About seventeen years ago I had from him one letter after another urging that English Liberals should unite themselves and find a live political issue in a campaign for the disestablishing of the Church of England. That was just the time when every careful observer in England had begun to perceive that the sentiment for disestablishment was becoming weaker, because other questions had begun to fill the public mind, and that to raise the issue would bring no strength to any party that raised it. Aversion to ecclesiastical power had been always among the principles he most cherished. It was the only thing he had in common with Froude, whom he heartily distrusted and disliked. Though he had dropped all dogmas, he was of a profoundly religious temper, and held that religion had suffered and would continue to suffer from any connection with the civil power, whether as ruled or as ruler."

18 3. State definitely what is wrong with the following passages and rewrite them correctly:—

(*a*.) Nelson now met the Spanish fleet off Cape St. Vincent, and in the engagement that followed he saw that the Spanish showed signs of retreating, so he disobeyed orders and engaged four of the enemy at once, and the English were victorious.

(*b*.) The opposing side scatters its men so that each one has a certain part of the field to guard, and in order to be in a position to catch the ball when it is kicked.

(*c*.) Chaucer began to write at an early age, and he was a page for some court lady and went to France when she did, and we may presume that his stay there gave him an acquaintance with French literature which was later of service to him.

(*d*.) By placing on file with us a description of your present position, salary, opportunities, evidences of your work, and a few strong references, and also under what conditions you would make a change, this agency feels confident it can be of service to you.

50 4. Write an essay on *one* of the following subjects:—

(*a*.) City (or Town, or Village) Beautifying.

(*b*.) Why Read Spenser?

(*c*.) Effort, the Condition of Success.

ENGLISH LITERATURE. (Time, 3 hours.)

Value.

24 1. Write as fully as you can on each of the following:—

(*a.*) Early Celtic Literature.

(*b.*) Anglo-Saxon War-Poetry.

(*c.*) Confessio Amantis.

(*d.*) Sir Philip Sidney's contribution to English Literature.

(*e.*) Gorboduc and Ralph Roister Doister.

(*f.*) Shakespeare's dramatic contemporaries and their work (Marlowe and Jonson may be omitted for the purposes of this question).

12 2. What were the chief literary, historical, and social influences upon the poetry of: (*a*) Chaucer; (*b*) Spenser; and (*c*) Milton?

Support your statements by definite references to their works.

Answer any *two* of the parts (*a*), (*b*), and (*c*).

20 3. Write on the first book of the "Faerie Queene" under *one* of the following heads:—

(*a.*) A Religious Poem.

(*b.*) A Poem for its Age.

12 4. Quote a passage of at least sixteen consecutive lines from "The Prologue to the Canterbury Tales."

Give some directions for the scansion of Chaucer's lines with suitable illustration from the passage quoted.

14 5. To whom do the following passages allude?

(*a.*) "With scaled browes blake and piled berd."

(*b.*) "And ever he rood the hyndreste of our route."

What traits of character do the lines suggest?

Give full illustration from "The Prologue" of Chaucer's skill in thus *hinting* at the characteristics of his pilgrims.

18 6. Set forth the substance of the scene in "Comus" in which the Lady sits in the enchanted chair. Suggest interpretations of the symbolism of the scene.

FRENCH LANGUAGE. (Time, 3 hours.)

Value.

40 1. Put into French:—

Seeing that I was resolved to risk everything, bursting into tears and taking me into his arms, he cried: "Go, child of nature, regain man's independence of which Lopez would not deprive thee. If I were younger I would go with thee into the wilderness and would restore thee to thy mother's arms. When thou art in thy forests think sometimes of this old Spaniard who gave thee hospitality and recall, that thou mayst love thy neighbour, that thy first experience of the human heart has been all in its favour."

Value.

20 2. Put into French:—

(*a.*) When he comes back he will come and see you.

(*b.*) I have not seen his brother or his sister. No more have I.

(*c.*) He asks for something to eat.

(*d.*) Yes, Colonel, replied the old soldier, *I* took this flag.

(*e.*) I had known him for twenty years.

(*f.*) English was the only language he spoke.

(*g.*) It is possible that it is too late.

(*h.*) She never takes more than one small piece of cake; she eats no more than a sparrow.

(*i.*) Don't you remember what I told you?

(*j.*) The more difficult a thing is, the more it is worth while doing.

10 3. Change the principal sentences in the way indicated and make any other changes thus rendered necessary:—

(*a.*) Cette femme ne parle pas mieux qu'elle écrit. (Take the negative out.)

(*b.*) Je vous assure qu'il a été reçu. (Make negative.)

(*c.*) J'ignorais que vous fussiez arrivé. (Make negative.)

(*d.*) Récitez-moi la poésie que vous savez par coeur. (Substitute *quelque* for *la.*)

10 4. Give the primary tenses of falloir, lire, mourir, concevoir, boire, manger, ouvrir, aller, vivre, voir.

10 5. Give the plural of: un jeu nouveau; un vent glacial; le carnaval de Venise; un beau cheval.

Siepmann asks in one of the exercises for the plural of: *un conseil amical.* Now the masculine plural of *amical* is not used. How would you express this idea (the plural of: *un conseil amical*) in every-day French?

7 6. Make the necessary changes in the verbs in italics:—

(*a.*) Ils se sont *sauver.*

(*b.*) Ils *courir* aux sports qui auront lieu la semaine prochaine.

(*c.*) Il *descendre* (past indefinite) les malles.

(*d.*) Il *naître* (past indefinite) à Paris.

(*e.*) Il *devenir* (pluperfect) riche.

(*f.*) Il *changer* (past definite or preterite) d'habits.

(*g.*) Vous *aller* (past indefinite) trop vite.

3 7. Substitute demonstrative pronouns for the parts printed in italics:—

Quand a-t-il écrit *ces lettres-là?*

Ces champs là sont *les champs* de mon oncle.

Ce qu'il a dit n'est pas vrai.

FRENCH LITERATURE. (Time, 3 hours.)

Value.

10 1. Why is Molière regarded as a great writer of comedy?

10 2. Sometimes reference is made to the dramatic talent of La Fontaine. Why?

10 3. Who were the great prose writers of the eighteenth century? Give some account of their work.

10 4. What do you understand by the term *Romantic Movement?* Who took part in it?

5. Translate the following passages and comment on the words or expressions in italics:—

15 (*a.*)

Mourir sans tirer *ma* raison!
Rechercher un trépas si mortel à ma gloire!
Endurer que l'Espagne impute à ma mémoire
D'avoir mal soutenu l'honneur de ma maison!
Respecter un amour dont mon âme égarée
Voit la perte assurée!
N'écoutons plus ce *penser suborneur*,
Qui ne sert qu'à ma peine
Allons, mon bras; sauvons du moins l'honneur,
Puisqu'après tout il faut perdre Chimène.

15 (*b.*) DON CARLOS (SEUL). Charlemagne, pardon! ces voûtes solitaires
Ne devraient répéter que paroles austères.
Tu t'indignes sans doute à ce bourdonnement
Que nos ambitions font sur ton monument.
—Charlemagne est ici! Comment, sépulcre sombre,
Peux-tu sans éclater contenir si grande ombre?
Es-tu bien là, géant d'un monde créateur,
Et t'y peux-tu coucher de toute ta hauteur?
—Ah! c'est un beau spectacle à ravir la pensée
Que l'Europe ainsi faite et comme il l'a laissée!
Un édifice, avec *deux hommes* au sommet,
Deux chefs élus, auxquels tout roi né se soumet.
Presque tous les états, duchés, fiefs militaires,
Royaumes, marquisats, tous sont héréditaires,
Mais le peuple a parfois son pape ou son césar,
Tout marche, et le hasard corrige le hasard.
De là vient l'équilibre, et toujours l'ordre éclate.

10 (*c.*) Tu ne nous as point donné un coeur pour nous haïr, et des mains pour nous égorger; fais que nous nous aidions mutuellement à supporter le fardeau d'une vie pénible et passagère; que les petites différences entre les vêtements qui couvrent nos débiles corps, entre tous nos langages insuffisants, entre tous nos usages ridicules, entre toutes nos lois imparfaites, entre toutes nos opinions insensées, entre toutes nos conditions si disproportionnées à nos yeux, et si égales devant toi; que toutes ces petites nuances qui distinguent les atomes appelés hommes ne soient pas des signaux de haine et de persécution.

20 (*d.*) Grandet alla, muni de sa fortune liquide et de la dot, muni de deux mille louis d'or, *au district*, où, moyennant deux cents doubles louis offerts par son beau-père au farouche républicain qui surveillait la vente des domaines nationaux, il eut *pour un morceau de pain*, légalement, sinon légitimement, les plus beaux vignobles de l'arrondissement, une vieille abbaye et quelques *métairies*. Les habitants de Saumur étaient peu révolutionnaires; le père Grandet passa pour un homme hardi, un républicain, un patriote, pour un esprit qui donnait dans les nouvelles idées, tandis que le tonnelier donnait tout bonnement dans les vignes.

GEOMETRY. (Time, 3 hours.)

Value.

10 1. (*a.*) Show how to divide a given straight line internally and externally in the ratio of 3 to 2. Give proof.

(*b.*) Construct a square having an area of 6 sq. in. Omit proof.

8 2. Prove that the areas of similar triangles are proportional to the squares on corresponding sides.

12 3. Prove that the rectangle contained by the diagonals of a quadrilateral inscribed in a circle is equal to the sum of the two rectangles contained by its opposite sides.

14 4. O is the centre and OD a radius of a circle. E is any point in OD, and F is taken in OD produced such that OF is a third proportional to OE and OD. If P is any point on the circumference of the circle, prove that the angles FPD and DPE are equal.

14 5. A piece of paper is cut in the form of a triangle ABC having AB = 5 in., BC = 12 in., and AC = 13 in. The triangle is folded so that A and C coincide. Find the length of the crease.

12 6. AB and CD are two given skew lines and P is a given point not on AB or CD. Show how to draw a straight line from P which shall cut the two given skew lines.

12 7. Prove that the sum of any two face angles in a trihedral angle is greater than the third.

8 8. (*a.*) Prove that two skew lines have a common perpendicular.

10 (*b.*) Given two skew lines, show how to draw a straight line from one line to the other so as to make equal angles (not right angles) with each.

GERMAN GRAMMAR AND COMPOSITION. (Time, 3 hours.)

Value.

25 1. Translate :—

Some American students who had been attending the University at Leipzig, wanted to take a vacation trip and see all they could of the country. So they got a map and arranged a tour, which conducted them through the Black Forest to the Rhine. From there they took the beautiful steamer trip to Cologne and saw the picturesque old castles on both banks of the historic river. Arrived at Cologne, they admired the wonderful cathedral, one of the most famous monuments of Gothic architecture in the world. Their return trip to Leipzig was equally interesting, as they took a walking tour through the Harz mountains and so were able to see the places made familiar to them by Heine's charming Harzreise.

40 2. Translate :—

(1.) The professor asked them if they wished to take a long trip.

(2.) The farther they went the more things occurred to them.

(3.) They preferred to take the street car because the Wienhold family was to accompany them.

(4.) Here, waiter, please give us two cups of coffee and fifty pfennigs' worth of rolls and sausages.

(5.) We should enjoy the scenery more, if the window were open.

Value.

(6.) I told the old gentleman that we were not too proud of our pronunciation.

(7.) They took a room at five marks, and asked the porter to have their things brought up.

(8.) Luther is said to have thrown his inkwell at the devil.

(9.) When he had read their letter, he asked for his old friend and was pleased to learn that he was well.

(10.) After introducing them to his wife and daughters, he proposed that they should have coffee together in the garden.

20 3. Translate (at sight) :—

I received a letter a few days ago from my friend in Leipzig, in which he says he intends to spend next term at the University in Breslau because there are too many Americans and English in Leipzig. He declares he has been forced to put off his examination, because it is impossible to become master of German in such a crowd of English-speaking students. I suppose, of course, he understands the language when spoken, and can express himself very well in ordinary conversation, for he wrote me that he had been introduced into a good many refined families in Leipzig. What he wanted, however, was a closer acquaintance with German students, and that seemed quite impossible in Leipzig.

15 4. Write in German, a geographical description of Germany *or* the story of the polite Dutchman.

GERMAN TRANSLATION. (Time, 3 hours.)

Value.

1. Translate :—

8 (*a.*) Er hatte seit Jahren, wo er deren habhaft werden konnte, die im Volke lebenden Reime und Lieder gesammelt, und ging nun daran, seinen Schatz zu ordnen und womöglich mit neuen Aufzeichnungen aus der Umgegend zu vermehren.— Elisabeth war zu allen Zeiten sanft und freundlich; Erichs immer gleichbleibende Aufmerksamkeit nahm sie mit einer fast demütigen Dankbarkeit auf, und Reinhardt dachte mitunter, das heitere Kind von ehedem habe wohl eine weniger stille Frau versprochen.

8 (*b.*) Draußen auf der Straße war es tiefe Dämmerung; er fühlte die frische Winterluft an seiner heißen Stirn. Hie und da fiel der helle Schein eines brennenden Tannenbaums aus den Fenstern, dann und wann hörte man von drinnen das Geräusch von kleinen Pfeifen und Blechtrompeten und dazwischen jubelnde Kinderstimmen. Scharen von Bettelkindern gingen von Haus zu Haus, oder stiegen auf die Treppengeländer und suchten durch die Fenster einen Blick in die versagte Herrlichkeit zu gewinnen.

Value.

2. Translate :—

8 (*a.*) Eine bittere Wehmut umfing sie, das Gefühl, als ob sie aus einer schöneren Welt ausgestoßen wäre und jetzt als ein glückloser Schatten in der Öde herumirre ; denn wenn das Bild auch zu einem Ideal erhoben war, so stellte es gerade dadurch das ursprüngliche innere Wesen Eugenias dar, das durch ihre Schulfuchserei nur verhüllt wurde, und er war ein edleres Gefühl als Eitelkeit, durch welches sie ihr besseres Selbst in dem magischen Mondglanz nun erkannte. Das machte ihr eben zu Mute, wie wenn sie die unrechte Karte ausgespielt hätte, um modern zu reden, da es damals keine Karten gab.

8 (*b.*) „Gieb mir diese Dinge wieder nnd du kannst wohl mein Weib dafür haben!" erwiderte Gebizo bitter lachend, und jener rief blitzschnell : „Es gilt! Suche unter dem Kopfkissen deiner Frau, dort wirst du finden, was für deine ganze Lebenszeit ausreicht, alle Tage ein Kloster zu bauen und tausend Menschen zu speisen, und wenn du hundert Jahre alt würdest ! Dafür bringe mir dein Weib hier zur Stelle, unfehlbar am Abend vor Walpurgistag ! "

3. Translate :—

9 (*a.*) — Und all das Unheil, hat der böse Geist Journalismus angerichtet. Alle Welt klagt über ihn und jedermann möchte ihn für sich benutzen. Mein Oberst hat so lange die Zeitungsschreiber verachtet, bis er selbst einer geworden ist, und Senden läßt keine Gelegenheit vorüber, auf meine guten Freunde von der Feder zu schelten, nur um selbst an ihre Stelle zu treten. Ich sehe kommen, daß Piepenbrink und ich auch noch Journalisten werden und zusammen ein kleines Blatt unter dem Titel : „Der unartige Bolz" herausgeben.

9 (*b.*) Es ist möglich, daß, wie jetzt Sie, auch eine spätere Zeit unsern politischen Hader, unsere Parteibestrebungen und was damit zusammenhängt, sehr niedrig schätzen wird. Es ist möglich, daß unser ganzes Arbeiten resultatlos bleibt ; es ist möglich, daß vieles Gute, das wir ersehnen, sich, wenn es erreicht ist, in das Gegenteil verkehrt, ja es ist höchst wahrscheinlich, daß mein eigner Anteil an dem Kampfe oft peinlich, unerquicklich und durchaus nicht das sein wird, was man eine dankbare Thätigkeit nennt ; aber das alles darf mich nicht abhalten, dem Kampf und Ringen der Zeit, welcher ich angehöre, mein Leben hinzugeben ; denn es ist trotz alledem dieser Kampf das Höchste und Edelste, was die Gegenwart hervorbringt.

8 4. Translate :—

Der Herr kommt siegesbewußt — statt der Skalpe der erschlagenen Feinde trägt er einige Medaillons mit braunen und blonden Locken an der Uhrkette.— Er kommt also und sagt einige gewöhnliche Worte. Man empfängt ihn kalt—sieht ihm scharf in das Auge — und sagt herablassend : „Sehr erfreut." Dann schweigt man und läßt ihn reden — ab und zu ein Wort und ein Blick von der Seite. Je länger er redet — desto eher wird er eine Torheit herausbringen — dann zuckt man die Achseln — lächelt etwas höhnisch — wieder ein Seitenblick — etwa so — als wenn man sagen wollte „Sie machen ja entsetzliche Anstrengungen." Das setzt ihn in Verlegenheit — man winkt ihm gnädig und er geht — um bald wieder an unserer Seite zu sein.

14 5. Discuss briefly the above passages in their proper context.

5 6. Translate :—

(*a.*) Um den Frack ist mir nicht. Das geht nicht. Das wird sich finden Wollen Sie mich zum Besten haben ? Dafür kann man nicht.

Value.

5 (*b.*) Es handelt ſich um deine Ehre. Ich habe es ſatt bei dem Koriolan. Dem geſchieht recht. Es iſt zum Tollwerden. Sie müſſen uns ſchon etwas zu gute halten.

18 7. Write briefly, in German, the story of Immensee, *or* one of Keller's Legenden.

GREEK AUTHORS. (Time, 3 hours.)

Value.

24 1. Translate:—

μέχρι μὲν δὴ τούτων γελάσιμα καὶ μειρακιώδη τὰ εἰρημένα· τὰ μετὰ ταῦτα δὲ οὐκέτι εὐκαταφρόνητα, ὦ ἄνδρες, ἀκούσεσθε, ἀλλὰ καὶ πάνυ φιλικόων ἀκροατῶν δεόμενα· ἵνα γὰρ καθ' Ὅμηρον εἴπω

θεῖός μοι ἐνύπνιον ἦλθεν ὄνειρος
ἀμβροσίην διὰ νύκτα

ἐναργὴς οὕτως, ὥστε μηδὲν ἀπολείπεσθαι τῆς ἀληθείας. ἔτι γοῦν καὶ μετὰ τοσοῦτον χρόνον τά τε σχήματά μοι τῶν φανέντων ἐν τοῖς ὀφθαλμοῖς παραμένει καὶ ἡ φωνὴ τῶν ἀκουσθέντων ἔναυλος· οὕτω σαφῆ πάντα ἦν. δύο γυναῖκες λαβόμεναι ταῖν χεροῖν εἷλκόν με πρὸς ἑαυτὴν ἑκατέρα μάλα βιαίως καὶ καρτερῶς· μικροῦ γοῦν με διεσπάσαντο πρὸς ἀλλήλας φιλοτιμούμεναι· καὶ γὰρ ἄρτι μὲν ἂν ἡ ἑτέρα ἐπεκράτει καὶ παρὰ μικρὸν ὅλον εἶχέ με, ἄρτι δ' ἂν αὖθις ὑπὸ τῆς ἑτέρας εἰχόμην. ἐβόων δὲ πρὸς ἀλλήλας ἑκατέρα, ἡ μέν, ὡς αὐτῆς ὄντα με κεκτῆσθαι βούλοιτο, ἡ δέ, ὡς μάτην τῶν ἀλλοτρίων ἀντιποιοῖτο. ἦν δὲ ἡ μὲν ἐργατικὴ καὶ ἀνδρικὴ καὶ αὐχμηρὰ τὴν κόμην, τῷ χεῖρε τύλων ἀνάπλεως, διεζωσμένη τὴν ἐσθῆτα, τιτάνου καταγέμουσα, οἷος ἦν ὁ θεῖος, ὁπότε ξέοι τοὺς λίθους· ἡ ἑτέρα δὲ μάλα εὐπρόσωπος καὶ τὸ σχῆμα εὐπρεπὴς καὶ κόσμιος τὴν ἀναβολήν. τέλος δ' οὖν ἐφιᾶσί μοι δικάζειν, ὁπότερα βουλοίμην συνεῖναι αὐτῶν.

(*a.*) Explain the construction of ἄν - - - ἐπεκράτει, βούλοιτο, τὴν κόμην, τύλων, ξέοι.
(*b.*) Give the principal parts of ἀκούσεσθε, ἀπολείπεσθαι, φανέντων, παραμένει.

18 2. Translate:—

διελθόντες δὲ καὶ τούτους ἐς τὸ πεδίον ἐσβάλλομεν τὸ Ἀχερούσιον, εὑρίσκομέν τε αὐτόθι τοὺς ἡμιθέους τε καὶ τὰς ἡρωΐνας καὶ τὸν ἄλλον ὅμιλον τῶν νεκρῶν κατὰ ἔθνη καὶ κατὰ φῦλα διαιτωμένους, τοὺς μὲν παλαιοὺς τινας καὶ εὐρωτιῶντας καὶ ὥς φησιν Ὅμηρος, ἀμενηνούς, τοὺς δ' ἔτι νεαλεῖς καὶ συνεστηκότας, καὶ μάλιστα τοὺς Αἰγυπτίους αὐτῶν διὰ τὸ πολυαρκὲς τῆς ταριχείας. τὸ μέντοι διαγιγνώσκειν ἕκαστον οὐ πάνυ τι ἦν ῥᾴδιον· ἅπαντες γὰρ ἀτεχνῶς ἀλλήλοις γίγνονται ὅμοιοι τῶν ὀστῶν γεγυμνωμένων· πλὴν ἀλλὰ μόγις τε καὶ διὰ πολλοῦ ἀναθεωροῦντες αὐτοὺς ἐγιγνώσκομεν. ἔκειντο δ' ἐπ' ἀλλήλοις ἀμαυροὶ καὶ ἄσημοι καὶ οὐδὲν ἔτι τῶν παρ' ἡμῖν καλῶν φυλάττοντες. ἀμέλει πολλῶν ἐν ταὐτῷ σκελετῶν κειμένων καὶ πάντων ὁμοίων φοβερόν τι καὶ διάκενον δεδορκότων καὶ γυμνοὺς τοὺς ὀδόντας προφαινόντων ἠπόρουν πρὸς ἐμαυτόν, ᾧτινι διακρίναιμι τὸν Θερσίτην ἀπὸ τοῦ καλοῦ Νιρέως ἢ τὸν μεταίτην Ἶρον ἀπὸ τοῦ Φαιάκων βασιλέως ἢ Πυρρίαν τὸν μάγειρον ἀπὸ τοῦ Ἀγαμέμνονος.

(*a.*) Explain the construction of διαιτωμένους, ὀστῶν, διακρίναιμι.
(*b.*) Explain the allusions in the last sentence.

Value.

18 3. Translate:—

ΜΙΚ. Ω Ζεῦ τεράστιε καὶ Ἡράκλεις ἀλεξίκακε, τί τὸ κακὸν τοῦτ ἐστίν; ἀνθρωπικῶς ἐλάλησεν ἀλεκτρυών.

ΑΛΕΚ. Εἶτά σοι τέρας εἶναι δοκεῖ τὸ τοιοῦτον, εἰ ὁμόφωνος ὑμῖν εἰμι;

ΜΙΚ. Πῶς γὰρ οὐ τέρας; ἀλλ' ἀποτρέποιτε, ὦ θεοί, τὸ δεινὸν ἀφ' ἡμῶν.

ΑΛΕΚ. Σύ μοι δοκεῖς, ὦ Μίκυλλε, κομιδῇ ἀπαίδευτος εἶναι μηδὲ ἀνεγνωκέναι τὰ Ὁμήρου ποιήματα, ἐν οἷς καὶ ὁ τοῦ Ἀχιλλέως ἵππος ὁ Ξάνθος μακρὰ χαίρειν φράσας τῷ χρεμετίζειν ἔστηκεν ἐν μέσῳ τῷ πολέμῳ διαλεγόμενος ἔπη ὅλα ῥαψῳδῶν, οὐχ ὥσπερ ἐγὼ νῦν ἄνευ τῶν μέτρων, ἀλλὰ καὶ ἐμαντεύετο ἐκεῖνος καὶ τὰ μέλλοντα προεθέσπιζε καὶ οὐδέν τι παράδοξον ἐδόκει ποιεῖν, οὐδὲ ὁ ἀκούων ἐπεκαλεῖτο ὥσπερ σὺ τὸν ἀλεξίκακον ἀποτρόπαιον ἡγούμενος τὸ ἄκουσμα. καίτοι τί ἂν ἐποίησας, εἴ σοι ἡ τῆς Ἀργοῦς τρόπις ἐλάλησεν ἢ Δωδώνη αὐτόφωνος ἐμαντεύσατο, ἢ εἰ βύρσας εἶδες ἑρπούσας καὶ βοῶν κρέα μυκώμενα, ἡμίεφθα, περιπεπαρμένα τοῖς ὀβελοῖς;

(*a.*) Explain the construction of ἀποτρέποιτε, ἀνεγνωκέναι, εἶδες.

(*b.*) Give the principal parts of δοκεῖ, ἀνεγνωκέναι, εἶδες.

(*c.*) Explain the allusions in the last sentence.

19 4. Translate:—

ΧΟΡ. τί ποθ' ἡσυχία πρόσθεν μελάθρων;
τί σεσίγηται δόμος Ἀδμήτου;
ἀλλ' οὐδὲ φίλων πέλας οὐδείς,
ὅστις ἂν εἴποι πότερον φθιμένην
χρὴ βασίλειαν πενθεῖν, ἢ ζῶσ'
ἔτι φῶς λεύσσει Πελίου τόδε παῖς
Ἄλκηστις, ἐμοὶ πᾶσί τ' ἀρίστη
δόξασα γυνὴ
πόσιν εἰς αὐτῆς γεγενῆσθαι.
κλύει τις ἢ στεναγμὸν ἢ
χειρῶν κτύπον κατὰ στέγας
ἢ γόον ὡς πεπραγμένων;
οὐ μὰν οὐδέ τις ἀμφιπόλων
στατίζεται ἀμφὶ πύλας.
εἰ γὰρ μετακύμιος ἅτας,
ὦ Παιάν, φανείης.

(*a.*) Scan the first line and name the metre.

(*b.*) Explain the construction of φανείης.

21 5. Translate:—

ΗΡ. οὗτος, τί σεμνὸν καὶ πεφροντικὸς βλέπεις;
οὐ χρὴ σκυθρωπὸν τοῖς ξένοις τὸν πρόσπολον
εἶναι, δέχεσθαι δ' εὐπροσηγόρῳ φρενί.
σὺ δ' ἄνδρ' ἑταῖρον δεσπότου παρόνθ' ὁρῶν,
στυγνῷ προσώπῳ καὶ συνωφρυωμένῳ
δέχει, θυραίου πήματος σπουδὴν ἔχων.
δεῦρ' ἔλθ', ὅπως ἂν καὶ σοφώτερος γένῃ.
τὰ θνητὰ πράγματ' οἶδας ἥν ἔχει φύσιν;
οἶμαι μὲν οὔ· πόθεν γάρ; ἀλλ' ἄκουέ μου.
βροτοῖς ἅπασι κατθανεῖν ὀφείλεται,
κοὐκ ἔστι θνητῶν ὅστις ἐξεπίσταται
τὴν αὔριον μέλλουσαν εἰ βιώσεται·
τὸ τῆς τύχης γὰρ ἀφανὲς οἳ προβήσεται,
κἄστ' οὐ διδακτὸν οὐδ' ἁλίσκεται τέχνῃ.

(*a.*) Scan the next to the last line and name the metre.

(*b.*) Explain the construction of *οὗτος, σεμνόν, προσώπῳ, ἔχει, θνητῶν.*

(*c.*) Explain the situation, and discuss the character of the speaker and its appropriateness in the play.

(*d.*) Would the play have been improved, if, instead of having one of the characters tell the audience that Admetus begged his friends to die for him the poet had represented this in a separate scene?

GREEK COMPOSITION, SIGHT TRANSLATION, AND HISTORY. (Time, 3 hours.)

A. COMPOSITION.

Value.

50 Translate into Greek :—

(1.) Lucian's father sent him to his uncle so that he might become a sculptor.

(2.) By hard toil they became so famous that people came from all around to see them.

(3.) After Lucian became wealthy (use participial construction), his uncle was glad to see him.

(4.) Alexander fought the Persians for two years before he went to Egypt.

(5.) If Charon takes Menippus in his boat, he will get no fare.

(6.) Hermes said that Menippus was a philosopher.

(7.) Alexander knew that he was greater than the other generals.

(8.) Whoever came to this river was carried over by Charon in a small boat.

(9.) I did not know why he had not come the day before.

(10.) This general saw to it that his soldiers had food.

B. SIGHT TRANSLATION.

A DISASTROUS CAPTURE.

30 *Μάλα δὲ πιεζόμενοι οἱ Θηβαῖοι σπάνει σίτου διὰ τὸ δυοῖν ἐτοῖν μὴ εἰληφέναι καρπὸν ἐκ τῆς γῆς, πέμπουσιν ἐπὶ δυοῖν τριήροιν ἄνδρας εἰς Παγασὰς ἐπὶ σῖτον δέκα τάλαντα δόντες. Ἀλκέτας δὲ ὁ Λακεδαιμόνιος φυλάττων Ὠρεόν, ἐν ᾧ ἐκεῖνοι τὸν σῖτον συνεωνοῦντο, ἐπληρώσατο τρεῖς τριήρεις, ἐπιμεληθεὶς ὅπως μὴ ἐξαγγελθείη. ἐπεὶ δὲ ἀπήγετο ὁ σῖτος, λαμβάνει ὁ Ἀλκέτας τόν τε σῖτον καὶ τὰς τριήρεις, καὶ τοὺς ἄνδρας ἐζώγρησεν οὐκ ἐλάττους ὄντας ἢ τριακοσίους. τούτους δὲ εἶρξεν ἐν τῇ ἀκροπόλει, οὗπερ αὐτὸς ἐσκήνου.*

NOTE.—*ζωγρεῖν* = take prisoners.

C. HISTORY.

20 1. The relations of Athens and Sparta, 479-431 B.C.

2. Causes other than outside military pressure that contributed to the defeat of Athens in the Peloponnesian War.

HISTORY. (Time, 3 hours.)

[*All questions are of equal value. Answer* five *only.*]

1. Trace the development of the English parliamentary system during the 17th and 18th Centuries.

2. What were the leading features of the Old Régime in Europe? Illustrate your answer by reference to 18th Century France.

3. Outline the rôle played by the Jacobins in the French Revolution.

4. Was Napoleon Bonaparte greater in statesmanship than in war?

5. Outline the effects of the Industrial Revolution on 19th Century England.

6. State the problems confronting the Congress of Vienna. To what extent was its solution of the problems satisfactory?

7. "The middle years of the 19th Century witnessed a great revival of nationalism." Discuss with especial reference to Italy and Germany.

8. Sketch the relations between Church and State in France under the Third Republic.

9. To what extent has the history of England since 1832 been a "progress towards democracy"?

10. What is your explanation of the origin of the World War?

LATIN AUTHORS. (Time, 3 hours.)

Value.

13 1. Translate:—

Nam si id *culpa* senectutis accideret, eadem mihi usu *venirent* reliquisque omnibus maioribus *natu*, quorum ego multorum cognovi senectutem sine querella, qui se et libidinum *vinculis* laxatos esse non moleste *ferrent* nec a suis despicerentur. Sed omnium istius modi querellarum in moribus est culpa, non in aetate. Moderati enim et nec difficiles nec inhumani senes tolerabilem senectutem agunt, importunitas autem et inhumanitas omni *aetati* molesta est.

(*a.*) Account for the mood of *venirent, ferrent;* the case of *culpa, natu, vinculis, aetati.*

9 2. Translate:—

Non facit ea, quae iuvenes: at vero *multo* maiora et meliora facit. Non viribus aut velocitate aut celeritate corporum res magnae geruntur, sed consilio auctoritate sententia *quibus* non modo non orbari, sed etiam augeri senectus solet; nisi forte ego vobis, qui et miles et tribunus et legatus et consul versatus sum in vario genere bellorum, cessare nunc videor, cum bella non gero. At senatui quae sint gerenda praescribo et quo modo; Carthagini male iam diu cogitanti bellum multo ante denuntio, de qua vereri non ante desinam quam illam exscisam esse cognovero. Quam palmam utinam di immortales, Scipio, tibi *reservent*, ut avi reliquias *persequare*, cuius a morte tertius hic et tricesimus annus est, sed memoriam illius viri omnes excipient anni consequentes.

(*a.*) Account for the mood of *reservent, persequare;* the case of *multo, quibus.*

8 3. Translate:—

Itaque adulescentes mihi mori sic videntur, ut cum aquae multitudine flammae vis opprimitur senes autem sic, ut cum sua sponte, nulla adhibita vi, consumptus ignis exstinguitur, et quasi poma ex arboribus, cruda si sunt, vix evelluntur, si matura et cocta, decidunt, sic vitam adulescentibus vis aufert, senibus maturitas; quae quidem mihi tam iucunda est, ut, quo propius ad mortem accedam, quasi terram videre videar aliquandoque in portum ex longa navigatione esse venturus.

Value.

4 4. Translate:—

Haec habui de senectute quae *dicerem*, ad quam utinam veniatis, ut ea, quae ex me audistis re experti probare possitis!

(*a.*) Account for the mood of *dicerem.*

6 5. What four charges does Cato say are brought against old age? Set forth his answer to any *one* of them.

7 6. Translate:—

Psittacus, Eois imitatrix ales ab Indis,
occidit: *exequias* ite frequenter, aves;
ite, piae volucres, et plangite pectora pinnis
et rigido teneras ungue notate genas;
horrida pro maestis lanietur pluma capillis,
pro longa *resonent* carmina vestra tuba!

(*a.*) Account for the case of *exequias;* the mood of *resonent.*

7 7. Translate:—

quilibet hanc saevo vitam mihi finiat ense,
me tamen extincto fama superstes erit,
dumque suis septem victrix de montibus orbem
prospiciet domitum Martia Roma, legar.
tu quoque, quam studii maneat felicior usus,
effuge venturos, qua potes, usque rogos!

(*a.*) Account for the mood of *finiat.*

8 8. Translate:—

Ecquid ab impressae cognoscis imagine cerae
haec tibi Nasonem scribere verba, Macer?
auctorisque sui si non est anulus index,
cognitane est nostra littera facta manu?
an tibi notitiam mora temporis eripit horum,
nec repetunt oculi signa vetusta tui?
sis licet oblitus pariter gemmaeque manusque,
exciderit tantum ne tibi cura mei.

(*a.*) Name the metre. Scan lines 1, 2.

6 9. Translate:—

Ter quater evolvi signantes tempora *fastos*,
nec Sementina est ulla reperta dies:
cum mihi...sensit enim...'Lux haec *indicitur*,'
inquit
Musa 'quid a fastis non *stata sacra* petis?'

(*a.*) Write a note on *fastos, indicitur, stata sacra.*

5 10. Name Ovid's chief works. Give a brief sketch of his life.

12 11. Translate:—

verum ubi ductores acie revocaveris ambo,
deterior qui visus, eum, ne prodigus obsit,
dede neci; melior vacua *sine regnet* in aula.
alter erit maculis auro squalentibus ardens;
nam duo sunt genera: hic melior, insignis et ore
et rutilis clarus squamis; ille horridus alter
desidia, latamque trahens inglorius alvum.

(*a.*) Write a grammatical note on *sine regnet.*

Value.

9 12. Translate:—

verum ubi nulla fugam reperit fallacia, victus
in sese redit atque hominis tandem ore locutus:
'nam quis te, iuvenum confidentissime, nostras
iussit adire domos? quidve hinc petis?' inquit. at ille:
'scis, Proteu, scis ipse; neque est te fallere quicquam
sed tu desine velle. deum praecepta secuti
venimus, hinc lassis quaesitum oracula rebus.'

6 13. Name Virgil's works. Give a brief sketch of his life.

LATIN COMPOSITION, SIGHT TRANSLATION, AND HISTORY. (Time, 3 hours.)

Value.

1. Translate into Latin:—

6 (*a.*) We were informed that our soldiers had been ordered not to spare the captives.

12 (*b.*) They tried to persuade me to take up arms against my country: I replied, however, that as a young man I had always served my king and that I would not desert him in my old age.

14 (*c.*) If our forefathers had been afraid that a Roman general would one day become king, they would never have obeyed Cicero when he urged them to make Pompey their general in the war with Mithridates.

8 (*d.*) Cicero was so skilled in speaking that he could make his hearers believe whatever he wished.

40 2. Translate into English:—

IT MAY BE EXPEDIENT, BUT IS IT HONOURABLE?

Athenienses cum Persarum impetum nullo modo possent sustinere statuerentque ut urbe relicta coniugibus et liberis Troezene depositis naves conscenderent libertatemque Graeciae classe defenderent, Cyrsilum quendam suadentem, ut in urbe manerent Xerxemque reciperent, lapidibus cooperuerunt. Themistocles post victoriam eius belli, quod cum Persis fuit, dixit in contione se habere consilium rei publicae salutare, sed id publice sciri non opus esse: postulavit ut aliquem populus daret, quicum communicaret. Datus est Aristides. Huic ille dixit, classem Lacedaemoniorum, quae subducta esset ad Gytheum, clam incendi posse, quo facto frangi Lacedaemoniorum opes necesse esset. Quod Aristides cum audisset, in contionem magna expectatione venit dixitque perutile esse consilium, quod Themistocles adferret, sed minime honestum.

cooperio—cover, overwhelm. quicum = quocum.

20 3. Write on *three* of the following:—

(*a.*) The Tribunate.

(*b.*) Licinian Rogations.

(*c.*) First Punic War.

(*d.*) Camillus, Fabricius, Marcellus, Flamininus, Cato.

PHYSICS. (Time, 3 hours.)

Value.	
8	1. (*a.*) Write out in full: (1) Pascal's law regarding fluid pressure; (2) laws of transverse vibration of strings; (3) laws of electrolysis; (4) Ohm's law.
7	(*b.*) What is the *molecular theory?* Discuss fully, giving reasons for its acceptance.
5	2. (*a.*) Define: pound-weight, pound-mass, pound-force, foot-pound and poundal.
5	(*b.*) Find the weight of a pound-mass on the surface of the planet Mars, assuming the density of Mars to be seven-tenths that of the earth, its diameter 4,230 miles and the diameter of the earth 7,918 miles.
5	3. (*a.*) Define the unit of: (1) current strength; (2) resistance; (3) E.M.F.
5	(*b.*) The resistance of the filament of an incandescent lamp is 200 ohms, and it carries a current of 6 amperes. Find the amount of heat (in calories) developed in this filament per minute.
5	4. (*a.*) Explain the terms intensity, pitch, and quality as applied to sounds, mentioning upon what each depends and describing the devices for determining or explaining pitch and quality.
5	(*b.*) The wave length of a sound at 59° Fahrenheit is 5 inches. Find its frequency.
5	5. (*a.*) Describe an experiment for finding the specific heat of brass.
5	(*b.*) The weight of a litre of air at standard temperature and pressure is 1.293 gm. Find the weight of 800 c.c. of air at 37° C. and 70 cm. pressure.
5	6. (*a.*) Describe a laboratory method of showing that, when a magnetized steel needle is broken in pieces, each piece becomes a magnet.
5	(*b.*) Show how to electrify positively a piece of metal by friction.
5	7. (*a.*) Discuss the meaning of the dark lines in the solar spectrum.
5	(*b.*) Make a diagram to show how an object is viewed through a compound microscope.
5	8. (*a.*) Write a note on radiant energy, mentioning source, mode of transmission, and effects.
5	(*b.*) A stone is dropped down a deep mine and one second later another stone is dropped. How many feet apart will they be when the first stone has been falling five seconds?
15	9. Laboratory exercise-book, for which a maximum of fifteen marks will be allowed.

TRIGONOMETRY. (Time, 3 hours.)

Value.

1. Prove :—

4 (*a.*) $\tan^2 60° - 2\tan^2 45° = \cot^2 30° - 2\sin^2 30° - \frac{3}{4}\operatorname{cosec}^2 45°$.

6 (*b.*) $\dfrac{\cot(90° - A)\sec A \cot^3 A}{\operatorname{cosec}^2 A \sin^2(90° - A)} = \sqrt{1 + \tan^2 A}$.

10 2. A ship steaming due E. sights at noon a lighthouse bearing N.E., 15 miles distant. At 1.30 p.m. the lighthouse bears N.W. How many knots a day is the ship making? Given 60 knots = 69 miles.

3. Solve for all the positive angles less than four right angles :—

5 (*a.*) $3\tan\theta + \cot\theta = 5\operatorname{cosec}\theta$.

7 (*b.*) $\sin 7\theta = \sin 4\theta - \sin\theta$.

5 (*c.*) $\tan x - \sqrt{3}\cot x + 1 = \sqrt{3}$.

6 4. (*a.*) Prove geometrically that $\sin(A - B) = \sin A \cos B - \cos A \sin B$.

6 (*b.*) Prove geometrically that $\sin(270° - A) = -\cos(360° - A)$.

5. In any triangle prove :—

6 (*a.*) $\sin\dfrac{A}{2} = \sqrt{\dfrac{(s-b)(s-c)}{bc}}$.

6 (*b.*) $\tan\dfrac{A - B}{2} = \dfrac{a-b}{a+b}\cot\dfrac{C}{2}$.

14 6. In the triangle ABC, $a = 9$, $b = 12$, $A = 30°$, find c, given :—

log 9 = .95424. L sin 30° = 9.69897.
log 12 = 1.07918. L sin 11° 48′ 39″ = 9.31108.
log 171 = 2.23301. L sin 41″ 48′ 39″ = 9.82391.
log 368 = 2.56635. L sin 71° 48′ 39″ = 9.97774.

13 7. Find the greatest angle of the triangle whose sides are 183, 195, 214 feet, given
log 82 = 1.9138139. L tan 34° 26′ = 9.8360513.
log 101 = 2.0043214. L tan 34° 27′ = 9.8363221.
log 113 = 2.0530784.
log 296 = 2.4712917.

8. In any triangle prove :—

6 (*a.*) $\sin A + \sin B + \sin C = 4\cos\dfrac{A}{2}\cos\dfrac{B}{2}\cos\dfrac{C}{2}$.

6 (*b.*) $\dfrac{b^2 - c^2}{a}\cos A + \dfrac{c^2 - a^2}{b}\cos B + \dfrac{a^2 - b^2}{c}\cos C = 0$.

VICTORIA, B.C.
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1922.

ANNUAL REPORT

OF THE

MINISTER OF MINES

FOR THE

YEAR ENDING 31ST DECEMBER

1921

BEING AN ACCOUNT OF

MINING OPERATIONS FOR GOLD, COAL, ETC.

IN THE

PROVINCE OF BRITISH COLUMBIA

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1922.

To His Honour WALTER CAMERON NICHOL,

Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The Annual Report of the Provincial Mineralogist upon the Mining Industry of the Province for the year 1921 is herewith respectfully submitted.

WILLIAM SLOAN,

Minister of Mines.

Minister of Mines' Office,

February 24th, 1922.

Similkameen River, below Keremeos.

To the Honourable William Sloan,
Minister of Mines.

SIR,—I have the honour to submit herewith my Annual Report on the Mining Industry of the Province for the year ending December 31st, 1921.

The statistical tables give the total mineral output of the Province to date, and show in considerable detail the actual mineral production of the past year, as based on smelter or mill returns; also, a summary of the production of each of the last four years, thus illustrating by comparison the progress made in productive mining during this period.

To facilitate comparison with information previously given, I have retained, as closely as was possible, the general form already established for such tables and for the Report.

I have the honour to be,
Sir,
Your obedient servant,

WILLIAM FLEET ROBERTSON,
Provincial Mineralogist.

Bureau of Mines, Victoria, B.C.,
February 24th, 1922.

MINERAL PRODUCTION OF BRITISH COLUMBIA.

METHOD OF COMPUTING PRODUCTION.

In assembling the output of the lode mines in the following tables, the established custom of this Bureau has been adhered to, viz.: The output of a mine for the year is considered that amount of ore for which the smelter or mill returns have been received during the year. This system does not give the exact amount mined during the year, but rather the amount credited to the mine on the company's books during such year.

For ore shipped in December the smelter returns are not likely to be received until February in the new year, or later, and have, consequently, to be carried over to the credit of such new year. This plan, however, will be found very approximate for each year, and ultimately correct, as ore not credited in one year is credited in the next.

In the lode mines tables, the amount of the shipments has been obtained from certified returns received from the various mines, as provided for in the "Inspection of Metalliferous Mines Act, 1897." In calculating the value of the products, the average prices for the year in the New York Metal Market have been used as a basis. For silver 95 per cent., for lead 90 per cent., and for zinc 85 per cent. of such market prices have been taken. Treatment and other charges have not been deducted, except that in copper the amount of metal actually recovered has been taken, thus covering loss in slags.

TABLE I.—TOTAL PRODUCTION FOR ALL YEARS UP TO AND INCLUDING 1921.

Gold, placer	$ 76,177,403
Gold, lode	105,557,977
Silver	55,259,485
Copper	166,393,488
Lead	48,330,575
Zinc	21,848,531
Coal and coke	225,409,505
Building-stone, bricks, etc.	34,072,016
Miscellaneous minerals, etc	1,210,639
Total	$734,259,619

TABLE II.—PRODUCTION FOR EACH YEAR FROM 1852 TO 1921 (INCLUSIVE).

1852 to 1892 (inclusive)	$ 81,090,069
1893	3,588,413
1894	4,225,717
1895	5,643,042
1896	7,507,956
1897	10,455,268
1898	10,906,861
1899	12,393,131
1900	16,344,751
1901	20,086,780
1902	17,486,550
1903	17,495,954
1904	18,977,359
1905	22,461,325
1906	24,980,546
1907	25,882,560
1908	23,851,277
1909	24,443,025
1910	26,377,066
1911	23,499,072
1912	32,440,800
1913	30,296,398
1914	26,388,825
1915	29,447,508
1916	42,290,462
1917	37,010,392
1918	41,782,474
1919	33,296,313
1920	35,543,084
1921	28,066,641
Total	$734,259,619

Table III. gives a statement in detail of the quantities and value of the different mineral products for the years 1919, 1920, and 1921. It is difficult to get absolutely complete statistics regarding building-stone, lime, bricks, tiles, and other miscellaneous products, but the detail figures shown in Table V. are as nearly accurate as can be obtained.

TABLE III.

QUANTITIES AND VALUE OF MINERAL PRODUCTS FOR 1919, 1920, AND 1921.

	Customary Measure.	1919.		1920.		1921.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold placer	Ounces.	14,325	$ 286,500	11,080	$ 221,600	11,660	$ 233,200
" lode	"	152,426	3,150,645	120,048	2,481,392	135,663	2,804,154
Silver	"	3,403,119	3,592,673	3,377,849	3,235,980	2,673,389	1,591,201
Copper	Pounds	42,459,339	7,939,896	44,887,676	7,832,899	39,036,993	4,879,624
Lead	"	29,475,968	1,526,855	39,331,218	2,816,115	41,402,288	1,693,354
Zinc	"	56,737,651	3,540,429	47,208,268	3,077,979	49,419,372	1,952,065
Coal	Tons, 2,240 lb.	2,267,541	11,337,705	2,595,125	12,975,625	2,483,995	12,419,975
Coke	" "	91,138	637,966	67,792	474,544	59,434	416,038
Miscellaneous products			1,283,644		2,426,950		2,077,030
			$33,296,313		$35,543,084		$28,066,641

TABLE IV.

OUTPUT OF MINERAL PRODUCTS BY DISTRICTS AND DIVISIONS.

NAMES.	DIVISIONS.			DISTRICTS.		
	1919.	1920.	1921.	1919.	1920.	1921.
CARIBOO DISTRICT				$ 196,801	$ 222,335	$ 80,807
Cariboo and Quesnel Mining Division	$ 73,500	$ 66,000	$ 67,400			
Omineca Mining Division	123,301	156,335	13,407			
CASSIAR DISTRICT				6,402,082	7,293,008	7,323,662
EAST KOOTENAY DISTRICT				6,612,954	9,428,989	7,652,977
WEST KOOTENAY DISTRICT				4,669,090	3,049,731	1,638,618
Ainsworth Division	405,478	558,339	121,760			
Slocan and Slocan City "	2,900,087	1,390,563	181,011			
Nelson and Arrow Lake "	76,719	100,565	76,862			
Trail Creek "	1,275,538	982,020	1,250,233			
Revelstoke, Trout Lake, Lardeau	11,268	18,244	8,752			
BOUNDARY-YALE DISTRICT				2,527,514	2,011,803	1,272,511
Osoyoos, Grand Forks, and Greenwood Divisions	1,637,827	1,109,527	334,146			
Similkameen, Nicola, Vernon	759,637	842,287	936,865			
Yale, Ashcroft, Kamloops	130,050	59,989				
LILLOOET DISTRICT				62,684	15,980	20,730
COAST DISTRICT (Nanaimo, Alberni, Clayoquot, Quatsino, Victoria, Vancouver)				12,825,188	13,521,238	10,077,336
				$33,296,313	$35,543,084	$28,066,641

TABLE V.

Miscellaneous Products and Totals of Production, 1921.

District and Division.	Cement.	Lime and Limestone.	Building-stone.	Riprap.	Crushed Rock, Flux.	Sand and Gravel.	Pottery and Clay.	Fire, Face, and Red Brick.	Total Building Materials.	Miscellaneous Minerals.	Total Miscellaneous Products.	Total Output of Collieries.	Total Metalliferous Minerals.	Totals for Divisions.	Totals for Districts.
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
Cariboo															80,807
Cariboo and Quesnel													67,400	67,400	
Omineca												4,000	9,407	13,407	
Cassiar															7,323,662
Atlin, Stikine, Liard													148,546	148,546	
Skeena, Nass River, Portland Canal, Queen Charlotte		15,734	50,000		63,764				129,498		129,498		7,045,618	7,175,116	
East Kootenay															7,652,977
Fort Steele										5,605	5,605	3,786,593	3,834,016	7,626,214	
Windermere, Golden													26,763	26,763	
West Kootenay															1,638,618
Ainsworth													121,760	121,760	
Slocan and Slocan City													181,011	181,011	
Nelson, Arrow Lake													76,862	76,862	
Trail Creek													1,250,233	1,250,233	
Other Divisions						4,723			4,723		4,723		4,029	8,752	
Boundary-Yale															1,272,511
Grand Forks, Greenwood, Osoyoos		10,131							10,131	156,901	167,032		167,114	334,146	
Similkameen, Nicola, Vernon, Yale, Ashcroft, Kamloops			600					19,500	20,100		20,100	915,765	1,000	936,865	
Lillooet-Clinton								500	500		500		1,000	1,500	
Lillooet and Clinton										5,000	5,000		15,730	20,730	20,730
Coast, Southern															10,077,336
Vancouver Island (Nanaimo, Quatsino, Clayoquot, Alberni, Victoria)	620,406	273,326				35,424	759	70,690	1,000,605	5,725	1,006,330	8,129,655	8,606	9,144,591	
Mainland (Vancouver, New Westminster)			183,050	924	72,999	137,922	158,689	184,658	738,242		738,242		194,503	932,745	
Totals	620,406	299,191	233,650	924	136,763	178,069	159,448	275,348	1,903,799	173,231	2,077,030	12,836,013	13,153,598	28,066,641	28,066,641

TABLE VI.—PLACER GOLD.

Table VI. contains the yearly production of placer gold to date, as determined by the returns sent in by the banks and express companies, of gold transmitted by them to the mints, and from returns sent in by the Gold Commissioners and Mining Recorders. To these yearly amounts one-third was added up to the year 1878; from then to 1895 and from 1898 to 1909, one-fifth; and since then one-tenth, which proportions are considered to represent, approximately, the amount of gold sold of which there is no record. This placer gold contains from 10 to 25 per cent. silver, but the silver value has not been separated from the totals, as it would be insignificant.

YIELD OF PLACER GOLD TO DATE.

1858	$ 705,000	1874	$1,844,618	1890	$ 490,435	1906	$ 948,400
1859	1,615,070	1875	2,474,004	1891	429,811	1907	828,000
1860	2,228,543	1876	1,786,648	1892	399,526	1908	647,000
1861	2,666,118	1877	1,608,182	1893	356,131	1909	477,000
1862	2,656,903	1878	1,275,204	1894	405,516	1910	540,000
1863	3,913,563	1879	1,290,058	1895	481,683	1911	426,000
1864	3,735,850	1880	1,013,827	1896	544,026	1912	555,500
1865	3,491,205	1881	1,046,737	1897	513,520	1913	510,000
1866	2,662,106	1882	954,085	1898	643,346	1914	565,000
1867	2,480,868	1883	794,252	1899	1,344,900	1915	770,000
1868	3,372,972	1884	736,165	1900	1,278,724	1916	580,500
1869	1,774,978	1885	713,738	1901	970,100	1917	496,000
1870	1,336,956	1886	903,651	1902	1,073,140	1918	320,000
1871	1,799,440	1887	693,709	1903	1,060,420	1919	286,500
1872	1,610,972	1888	616,731	1904	1,115,300	1920	221,600
1873	1,305,749	1889	588,923	1905	969,300	1921	233,200
						Total	$76,177,403

TABLE VII.—PRODUCTION OF LODE MINES.

YEAR.	GOLD.		SILVER.		COPPER.		LEAD.		ZINC.		TOTAL VALUE.
	Oz.	Value.	Oz.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	
		$		$		$		$		$	$
1887			17,690	17,331			204,800	9,216			26,547
1888			79,780	75,000			674,500	29,813			104,813
1889			53,192	47,873			165,100	6,498			54,371
1890			70,427	73,948			*Nil.*	*Nil.*			73,948
1891			4,500	4,000			*Nil.*	*Nil.*			4,000
1892			77,160	66,935			808,420	33,064			99,999
1893	1,170	23,404	227,000	195,000			2,135,023	78,996			297,400
1894	6,252	125,014	746,379	470,219	324,680	16,234	5,662,523	169,875			781,342
1895	39,264	785,271	1,496,522	977,229	952,840	47,642	16,475,464	532,255			2,342,397
1896	62,259	1,244,180	3,135,343	2,100,689	3,818,556	190,926	24,199,977	721,384			4,257,179
1897	106,141	2,122,820	5,472,971	3,272,836	5,325,180	266,258	38,841,135	1,390,517			7,052,431
1898	110,061	2,201,217	4,292,401	2,375,841	7,271,678	874,781	31,693,559	1,077,581			6,529,420
1899	138,315	2,857,573	2,939,413	1,663,708	7,722,591	1,351,453	21,862,436	878,870			6,751,604
1900	167,153	3,453,381	3,958,175	2,309,200	9,997,080	1,615,289	63,358,621	2,691,887			10,069,757
1901	210,384	4,348,603	5,151,333	2,884,745	27,603,746	4,446,963	51,582,906	2,002,733			13,683,044
1902	236,491	4,888,269	3,917,917	1,941,328	29,636,057	3,446,673	22,536,381	824,832			11,101,102
1903	232,831	4,812,616	2,996,204	1,521,472	34,359,921	4,547,535	18,089,283	689,744			11,571,367
1904	222,042	4,589,608	3,222,481	1,719,516	35,710,128	4,578,037	36,646,244	1,421,874			12,309,035
1905	238,660	4,933,102	3,439,417	1,971,818	37,692,251	5,876,222	56,580,703	2,399,022			15,180,164
1906	224,027	4,630,639	2,990,262	1,897,320	42,990,488	8,288,565	52,408,217	2,667,578			17,484,102
1907	196,179	4,055,020	2,745,448	1,703,825	40,832,720	8,166,544	47,738,703	2,291,458			16,216,847
1908	255,582	5,282,880	2,631,389	1,321,483	47,274,614	6,240,249	43,195,733	1,632,799			14,477,411
1909	238,224	4,924,090	2,532,742	1,239,270	45,597,245	5,918,522	44,396,346	1,709,259	8,500,000	400,000	14,191,141
1910	267,701	5,533,380	2,450,241	1,245,016	38,243,934	4,871,512	34,658,746	1,386,350	4,184,192	192,473	13,228,731
1911	228,617	4,725,513	1,892,364	958,293	36,927,656	4,571,644	26,872,397	1,069,521	2,634,544	129,092	11,454,063
1912	257,496	5,322,442	3,132,108	1,810,045	51,456,537	8,408,513	44,871,454	1,805,627	5,358,280	316,139	17,662,766
1913	272,254	5,627,490	3,465,856	1,968,606	46,460,305	7,094,489	55,364,677	2,175,232	6,758,768	324,421	17,190,838
1914	247,170	5,109,004	3,602,180	1,876,736	45,009,699	6,121,319	50,625,048	1,771,877	7,866,467	346,125	15,225,061
1915	250,021	5,167,934	3,366,506	1,588,991	56,918,405	9,835,500	46,503,590	1,939,200	12,982,440	1,460,524	19,992,149
1916	221,932	4,587,334	3,301,923	2,059,739	65,379,364	17,784,494	48,727,516	3,007,462	37,168,980	4,043,985	31,483,014
1917	114,523	2,367,190	2,929,216	2,265,749	59,007,565	16,038,256	37,307,465	2,951,020	41,848,513	3,166,259	26,788,474
1918	164,674	3,403,812	3,498,172	3,215,870	61,483,754	15,143,449	43,899,661	2,928,107	41,772,916	2,899,040	27,590,278
1919	152,426	3,150,645	3,403,119	3,592,673	42,459,339	7,939,896	29,475,968	1,526,855	56,737,651	3,540,429	19,750,498
1920	120,048	2,481,392	3,377,849	3,235,980	44,887,676	7,832,899	39,331,218	2,816,115	47,208,268	3,077,979	19,444,365
1921	135,663	2,804,154	2,673,389	1,591,201	39,036,993	4,879,624	41,402,288	1,693,354	49,419,372	1,952,065	12,920,398
To'l	5,117,551	105,557,977	89,291,069	55,259,485	964,380,002	166,393,488	1,078,296,102	48,330,575	322,440,391	21,848,531	397,390,056

TABLE VIII.—COAL AND COKE PRODUCTION PER YEAR TO DATE

COAL.

Year.	Tons (2,240 lb.).	Value.
1836-1881	1,873,907	$ 6,003,245
1882	282,139	846,417
1883	213,299	639,897
1884	394,070	1,182,210
1885	265,596	796,788
1886	326,636	979,908
1887	413,360	1,240,080
1888	489,301	1,467,903
1889	579,830	1,739,490
1890	678,140	2,034,420
1891	1,029,097	3,087,291
1892	826,335	2,479,005
1893	978,294	2,934,882
1894	1,012,953	3,038,859
1895	939,654	2,818,962
1896	896,222	2,688,666
1897	882,854	2,648,562
1898	1,135,865	3,407,595
1899	1,306,324	3,918,972
1900	1,439,595	4,318,785
1901	1,460,331	4,380,993
1902	1,397,394	4,192,182
1903	1,168,194	3,504,582
1904	1,253,628	3,760,884
1905	1,384,312	4,152,936
1906	1,517,303	4,551,909
1907	1,800,067	6,300,235
1908	1,677,849	5,872,472
1909	2,006,476	7,022,666
1910	2,800,046	9,800,161
1911	2,193,062	7,675,717
1912	2,628,804	9,200,814
1913	2,137,483	7,481,190
1914	1,810,967	6,338,385
1915	1,611,129	5,638,952
1916	2,084,093	7,294,325
1917	2,149,975	7,524,913
1918	2,302,245	11,511,225
1919	2,267,541	11,337,705
1920	2,595,125	12,975,625
1921	2,483,995	12,419,975
Total	56,693,490	$201,209,783

COKE.

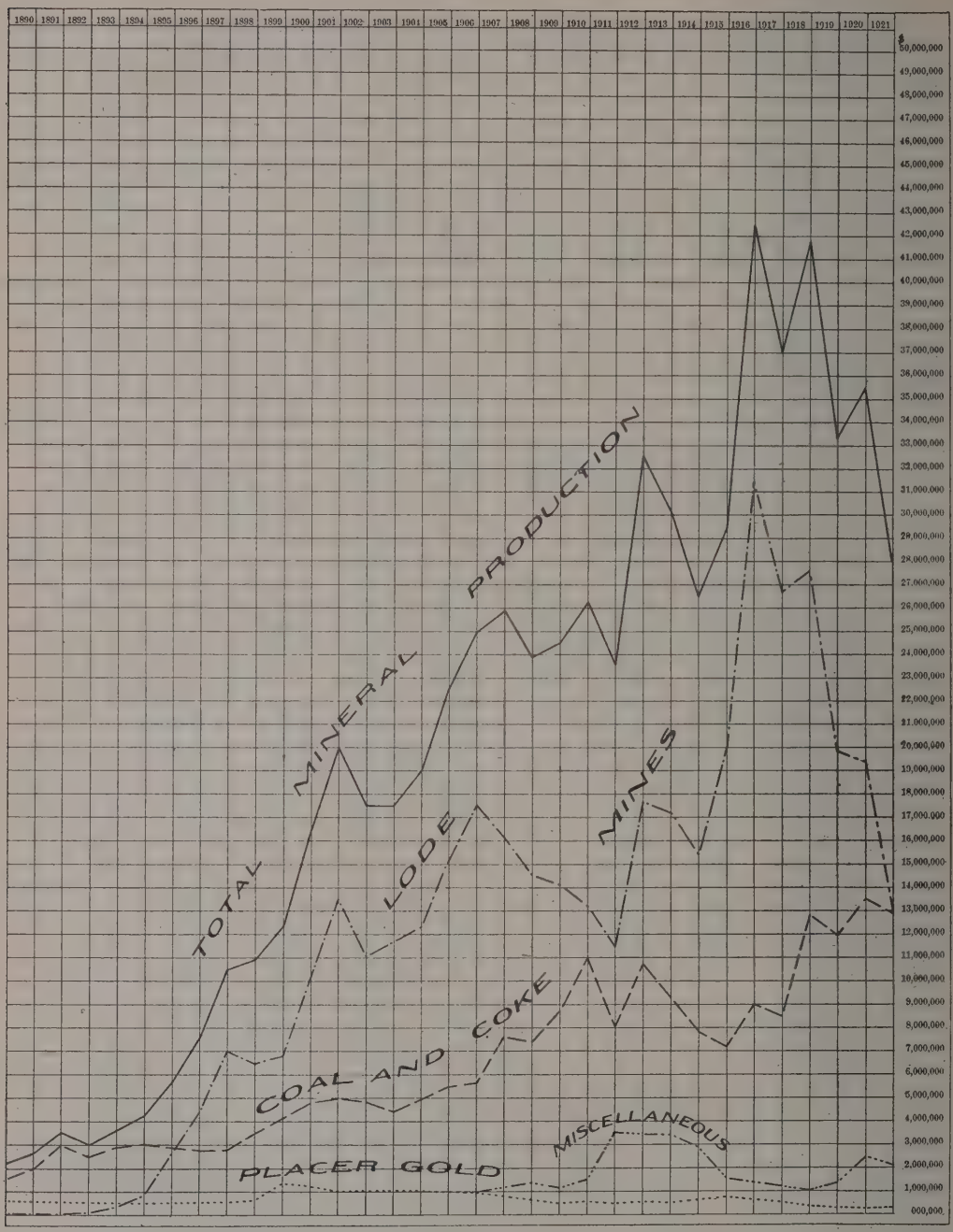
Year.	Tons (2,240 lb.).	
1895-97	19,396	$ 96,980
1898 (estimated)	35,000	175,000
1899	34,251	171,255
1900	85,149	425,745
1901	127,081	635,405
1902	128,015	640,075
1903	165,543	827,715
1904	238,428	1,192,140
1905	271,785	1,358,925
1906	199,227	996,135
1907	222,913	1,337,478
1908	247,399	1,484,394
1909	258,703	1,552,218
1910	218,029	1,308,174
1911	66,605	396,030
1912	264,333	1,585,998
1913	286,045	1,716,270
1914	234,577	1,407,462
1915	245,871	1,475,226
1916	267,725	1,606,350
1917	159,905	959,430
1918	188,967	1,322,769
1919	91,138	637,966
1920	67,792	474,544
1921	59,434	416,038
Total	4,182,701	$24,199,722

TABLE IX.—PRODUCTION IN DETAIL OF THE

DISTRICT.	YEAR	TONS.	GOLD—PLACER.		GOLD—LODE.		SILVER.	
			Ounces	Value.	Ounces.	Value.	Ounces.	Value.
				$		$		$
Cariboo								
Cariboo and Quesnel Divisions	1918		4,000	80,000				
	1919		3,500	70,000				
	1920		3,300	66,000				
	1921		3,370	67,400				
Omineca Division	1918	6,950	400	8,000	985	20,360	84,125	77,336
	1919	4,051	400	8,000	147	3,038	72,573	76,615
	1920	4,000	150	3,000	218	4,506	103,020	98,693
	1921	71	150	3,000	13	269	3,745	2,229
Cassiar								
Atlin, Stikine, and Liard Divisions	1918	73	11,025	220,500	446	9,219	1,115	1,025
	1919		8,850	177,000				
	1920		6,930	138,600				
	1921	55	7,210	144,200	3	62	1,808	1,076
Skeena, Nass, Portland Canal, and Queen Charlotte Divisions	1918	956,231			48,016	992,491	416,616	382,995
	1919	760,057	850	17,000	60,076	1,241,771	920,413	971,680
	1920	944,208	150	3,000	54,531	1,127,156	1,317,332	1,262,483
	1921	1,061,288	100	2,000	85,182	1,760,713	1,563,999	930,892
East Kootenay								
Fort Steele Division	1918	137,950	50	1,000			261,497	240,394
	1919	145,039	50	1,000			205,500	216,946
	1920	267,381	175	3,500			362,143	346,933
	1921	298,516	180	3,600	1	20	546,631	325,355
Windermere-Golden	1918	3,620					91,784	84,377
	1919	2,697			2	41	68,634	72,457
	1920	1,977					53,510	51,263
	1921	440					18,508	11,016
West Kootenay								
Ainsworth Division	1918	44,937			18	372	228,699	210,243
	1919	30,157			26	537	167,453	176,780
	1920	18,213			32	661	266,963	255,751
	1921	5,523			11	227	115,772	68,907
Slocan and Slocan City	1918	142,700			67	1,385	1,873,236	1,722,066
	1919	139,824			95	1,964	1,556,714	1,643,423
	1920	59,768			73	1,509	738,515	707,497
	1921	5,692			19	393	188,142	111,582
Nelson and Arrow Lake Divisions	1918	15,348	50	1,000	7,155	147,894	136,738	125,703
	1919	5,694	25	500	297	6,139	44,280	46,747
	1920	6,189	25	500	1,924	39,769	7,065	6,768
	1921	11,048	50	1,000	3,587	74,143	2,130	1,268
Trail Creek Division	1918	112,349			43,745	904,209	47,203	43,394
	1919	88,266			50,229	1,038,233	27,788	29,336
	1920	67,714			36,425	752,905	36,411	34,882
	1921	89,107			44,680	929,737	60,184	35,822
Revelstoke, Trout Lake, and Lardeau	1918	255	50	1,000	35	723	11,761	10,812
	1919	47	50	1,000	8	165	2,994	3,161
	1920	91	50	1,000	7	145	7,979	7,644
	1921	31	50	1,000	8	165	3,871	2,304
Boundary-Yale								
Grand Forks, Greenwood, and Osoyoos Divisions.	1918	692,504	50	1,000	55,353	1,144,147	227,113	208,785
	1919	252,106	50	1,000	32,874	679,506	222,680	235,083
	1920	84,125	25	500	20,366	420,965	385,681	369,482
	1921	41,658	25	500	735	15,192	160,051	95,262
Similkameen, Nicola, and Vernon Divisions	1918	73	250	5,000	1	21	131	120
	1919	154	50	1,000	25	517	6,823	7,203
	1920	18,996	25	500	83	1,716	4,876	4,671
	1921		50	1,000				
Yale, Ashcroft, and Kamloops Divisions	1918	30,826	50	1,000	815	16,846	1,317	1,211
	1919	29,871	100	2,000	627	12,960	2,096	2,213
	1920	1,025	50	1,000	238	4,919	437	419
	1921		50	1,000				
Lillooet								
Lillooet and Clinton Divisions	1918	3,858	50	1,000	2,473	51,117	412	379
	1919	4,720	375	7,500	2,506	51,799	365	385
	1920	200	175	3,500	120	2,480		
	1921	500	400	8,000	374	7,730		
Southern Coast								
Vancouver Island (Nanaimo, Alberni, Clayoquot, Quatsino, and Victoria Divisions)	1918	13,269	25	500	2,515	51,985	23,040	21,181
	1919	7,657	25	500	1,164	24,060	9,936	10,490
	1920	6,183	25	500	19	393	2,745	2,630
	1921	1,331	25	500	104	2,150	605	360
Mainland (Vancouver and New Westminster Divisions)	1918	731,900			3,050	63,043	93,385	85,849
	1919	642,635			4,350	89,915	94,870	100,154
	1920	698,117			6,012	124,268	90,672	86,864
	1921	47,385			646	13,353	7,943	4,728
TOTALS	1918	2,892,849	16,000	320,000	164,674	3,403,812	3,498,172	3,215,870
	1919	2,112,975	14,325	286,500	152,426	3,150,645	3,403,119	3,592,673
	1920	2,178,187	11,080	221,600	120,048	2,481,392	3,377,849	3,235,980
	1921	1,562,645	11,660	233,200	135,663	2,804,154	2,673,389	1,591,201

METALLIFEROUS MINES, ETC., FOR 1918, 1919, 1920, AND 1921.

COPPER.		LEAD.		ZINC.		TOTALS FOR DIVISIONS.				TOTALS FOR DISTRICTS.
Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	1918.	1919.	1920.	1921.	1921.
	$		$		$	$	$	$	$	$
										76,807
						80,000				
							70,000			
								66,000		
									67,400	
643,843	158,578	123,568	8,242	313,112	21,730	294,246				
16,205	3,030	180,455	9,347	224,539	14,011		114,041			
		189,488	13,567	453,512	29,569			149,335		
26,000	3,250	4,930	202	11,561	457				9,407	
										7,194,164
11,160	2,749					233,493				
							177,000			
								138,600		
25,664	3,208								148,546	
30,190,606	7,435,946					8,811,432				
20,411,421	3,816,936						6,047,387			
26,153,406	4,563,769							6,956,408		
34,816,103	4,352,013								7,045,618	
										3,860,779
1,768	435	18,695,565	1,246,994	26,704,806	1,853,313	3,342,136				
		10,729,483	555,787	46,460,703	2,899,148		3,672,881			
		26,926,319	1,927,924	42,881,092	2,795,847			5,074,204		
		38,066,820	1,556,933	49,319,198	1,943,108				3,834,016	
		2,659,210	177,369			261,746				
		1,659,279	85,951				158,449			
1,953	341	1,095,186	78,437					130,041		
		385,000	15,747						26,763	
										1,633,895
		6,106,262	407,288	640,991	44,485	662,388				
		4,336,602	224,636	36,785	2,295		404,248			
		4,072,307	291,613	158,193	10,314			558,339		
		1,264,845	57,732	22,629	894				121,760	
242	60	14,575,379	972,178	14,107,682	979,073	3,674,762				
		12,156,845	629,725	10,015,624	624,975		2,900,087			
		6,135,581	439,308	3,715,471	242,249			1,390,563		
		1,614,425	66,030	65,984	2,606				181,011	
28,933	7,126	1,611,166	107,465			389,188				
21,964	4,107	292,010	15,126				72,619			
755	132	719,219	51,496					98,665		
3,183	398	1,301	53						76,862	
1,654,356	407,468					1,355,071				
1,112,133	207,969						1,275,538			
1,113,085	194,233							982,020		
2,277,392	284,674								1,250,233	
		80,773	5,387	6,325	439	18,361				
		44,035	2,281				6,607			
		83,165	5,955					14,744		
		13,699	560						4,029	
										169,114
9,940,125	2,448,253	47,738	3,184			3,805,369				
3,273,655	612,173	43,200	2,238				1,530,000			
582,360	101,622	106,433	7,620					900,189		
432,505	54,063	51,268	2,097						167,114	
11,928	2,938					8,079				
5,180	969	4,594	238				9,927			
463,347	80,854	2,720	195					87,936		
									1,000	
525,780	129,500					148,557				
556,681	104,099	29,465	1,526				122,798			
260,808	45,511							51,849		
									1,000	
										15,730
						52,496				
							59,684			
								5,980		
									15,730	
										203,109
926,886	228,292					301,958				
432,252	80,831						115,881			
110,696	19,316							22,839		
44,770	5,596								8,606	
17,548,127	4,322,104					4,470,996				
16,629,848	3,109,782						3,299,851			
16,201,266	2,827,121							3,038,253		
1,411,376	176,422								194,503	
61,483,754	15,143,449	43,899,661	2,928,107	41,772,916	2,899,040	27,910,278				
42,459,339	7,939,896	29,475,968	1,526,855	56,737,651	3,540,429		20,036,998			
44,887,676	7,832,899	39,331,218	2,816,115	47,208,268	3,077,979			19,665,965		
39,036,993	6,879,624	41,402,283	1,693,354	49,419,372	1,952,065				13,153,598	13,153,598


1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921
$
50,000,000
49,000,000
48,000,000
47,000,000
46,000,000
45,000,000
44,000,000
43,000,000
42,000,000
41,000,000
40,000,000
39,000,000
38,000,000
37,000,000
36,000,000
35,000,000
34,000,000
33,000,000
32,000,000
31,000,000
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29,000,000
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8,000,000
7,000,000
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3,000,000
2,000,000
1,000,000
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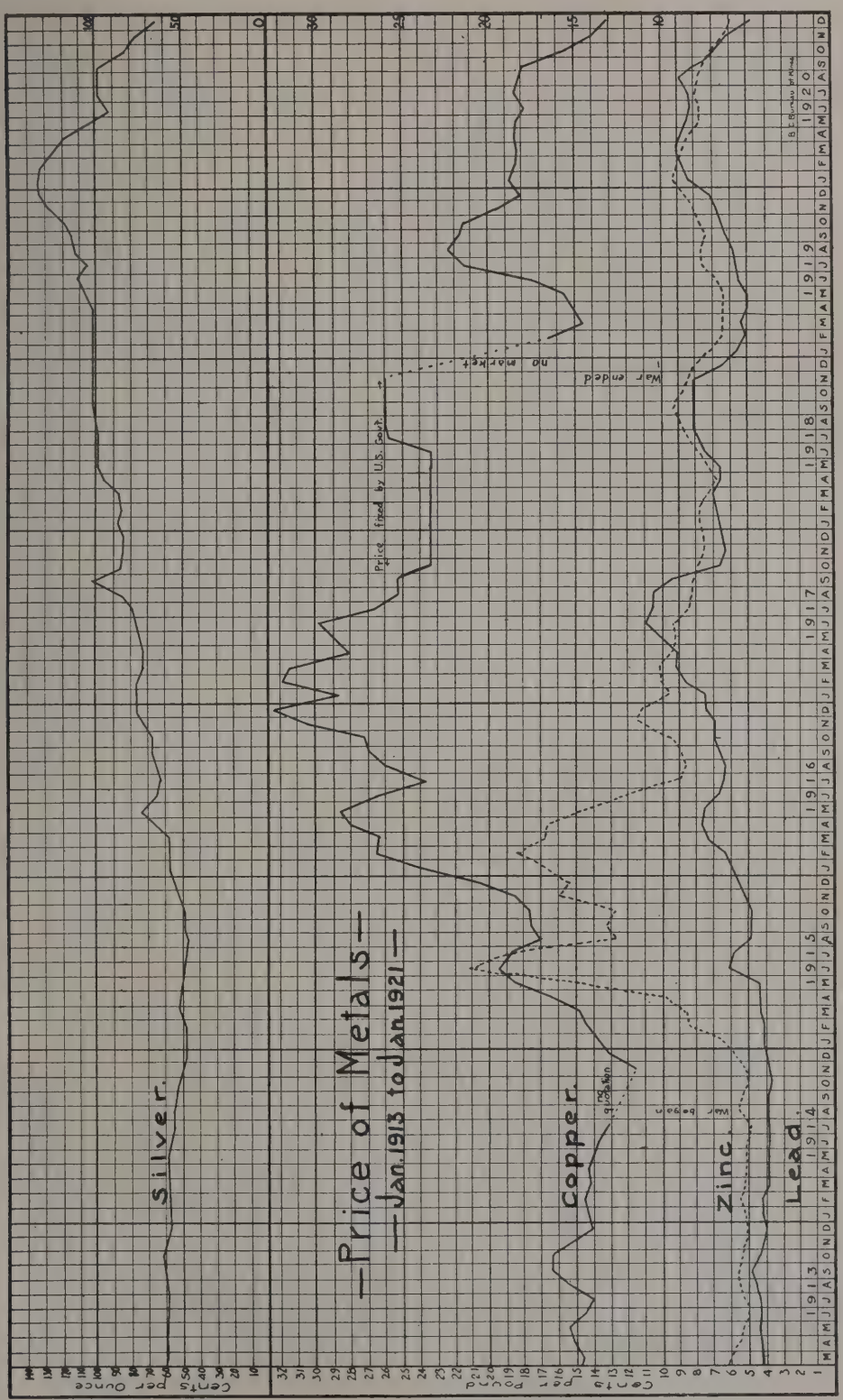
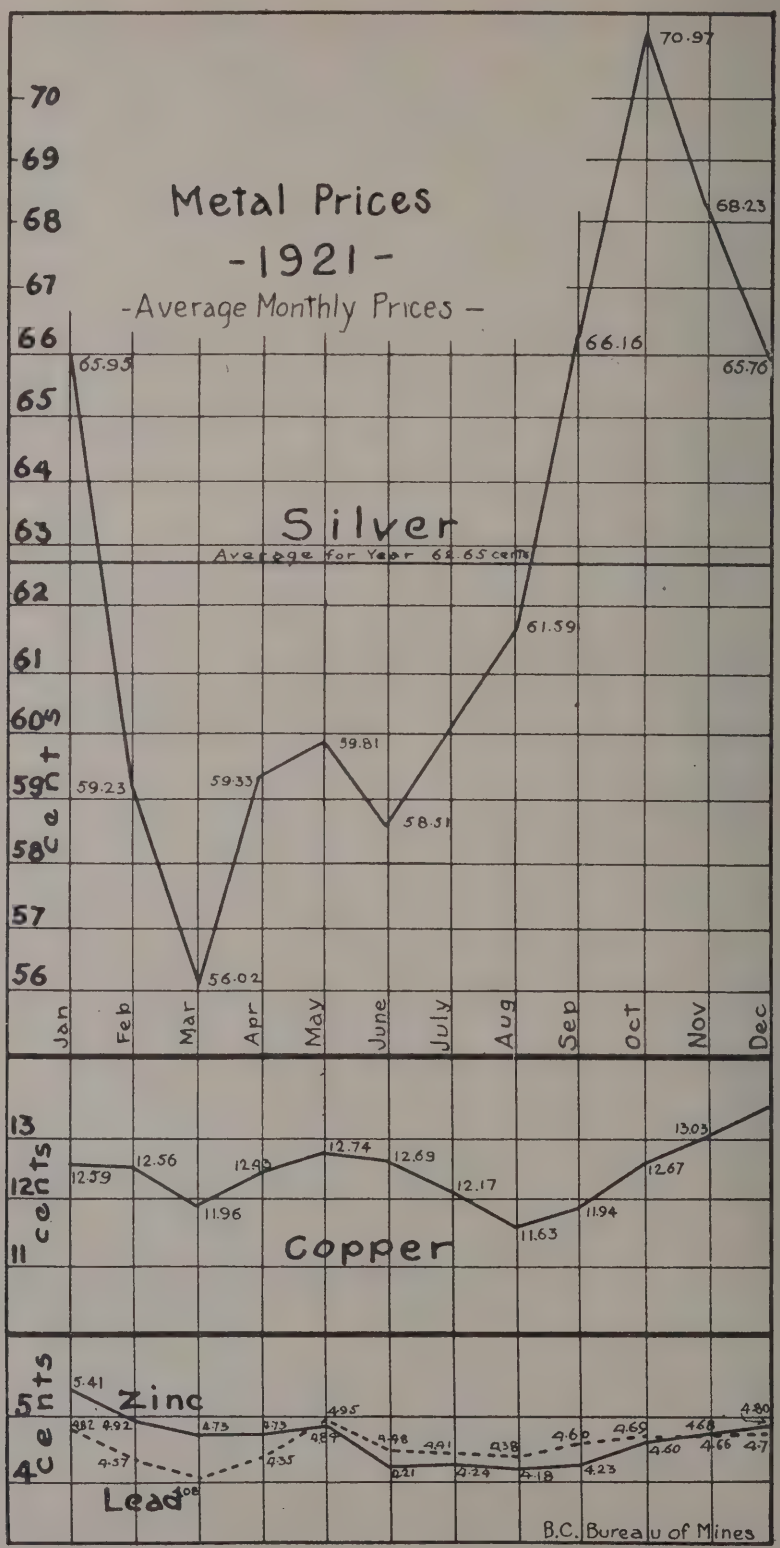
TOTAL MINERAL PRODUCTION
LODE MINES
COAL AND COKE
MISCELLANEOUS
PLACER GOLD


—Price of Metals—
—Jan. 1913 to Jan. 1921—
Silver.
Copper.
Zinc.
Lead.
Price fixed by U.S. Govt.
No market.
War ended
1913
1914
1915
1916
1917
1918
1919
1920


Metal Prices
-1921-
-Average Monthly Prices -
Silver
Average for Year 62.65 cents
65.95
59.23
56.02
59.33
59.81
58.31
61.59
66.16
70.97
68.23
65.76
Jan
Feb
Mar
Apr
May
June
July
Aug
Sep
Oct
Nov
Dec
Copper
12.39
12.56
11.96
12.49
12.74
12.69
12.17
11.63
11.94
12.67
13.03
Zinc
Lead
5.41
4.92
4.73
4.73
4.95
4.88
4.81
4.38
4.60
4.69
4.68
4.80
4.37
4.08
4.35
4.87
4.21
4.24
4.18
4.23
4.50
4.66
4.7
B.C. Bureau of Mines

PROGRESS OF MINING.

The gross value of the mineral production of the Province for the year 1921 was $28,066,641, a decrease from that of the preceding year of $7,476,443, or equivalent to a decrease of about 21.06 per cent.

While this decrease must be admitted, it is extremely gratifying to find that British Columbia's mining industry has been as well maintained as it has, under the phenomenally strenuous conditions that the industry has had to face during the year 1921.

As mining is a business, the condition of the metal market and of the current prices therein is the first essential to the success of the year's business.

The stagnation of the metal market, with its resultant great diminution in the market prices of all the metals, has been a matter of such common knowledge that a great falling-off in the value of the mineral production for the year 1921 was realized as inevitable and arising from world conditions not in any way connected with our mines; the results obtained will prove a very agreeable surprise, in that the discrepancies prove to be much less than was feared they would be, and in comparison with other mining communities we should consider ourselves very fortunate.

To appreciate how strenuous have been the obstacles with which metal-mining has had to contend with this past year, one has to take a broad view of the general conditions as they exist in the world at large, for our conditions cannot be considered a local matter, as they are governed and controlled by world conditions, and we are but a small factor in the world's production of metals.

Europe is the world's metal market, to which practically all export metals find their way. As Europe is the consumer, the industrial conditions of Europe regulate the consumption of and the demand for the metals.

With the unsettled condition of Europe at the present time, Europe cannot buy our metals; with the result that there has been on this continent a greatly overstocked metal market, which has brought about the usual result, a tremendous drop in the market prices of the metals.

To illustrate what this drop has been during the past year, the following table shows the average market prices of the various metals for the years 1920 and 1921:—

AVERAGE METAL-MARKET PRICES FOR YEAR.

	Silver.	Copper.	Lead.	Zinc.
	Cents.	Cents.	Cents.	Cents.
1920	100.90	17.45	7.96	7.67
1921	62.65	12.50	4.54	4.65
Percentage drop in 1921	37.90	28.36	42.90	39.36

To show what this drop in prices actually means, it might be said that, if exactly the same quantities of metals produced in 1920 had had to be sold at 1921 prices instead of 1920 prices, the value of the 1920 product would have been diminished 31 per cent. solely by such lower prices.

This means that in 1920, on an average, the miners received nearly 50 per cent. greater an amount than for a similar quantity of metals in 1921. This is the financial handicap from outside sources that our miners have had to meet throughout the year, and few of them made a profit at these prices, so that the mining companies deserve great credit for the very good output they made.

Towards the end of the year the costs of mining, including wages and supplies, have been materially decreased, so that the outlook for the next year's mining is somewhat brighter.

To indicate how fluctuating the market has been, charts have been prepared to accompany this Report (pages 15 and 16) which show the monthly fluctuations of metal-market prices from 1913 to date.

It is quite apparent from the charts that there has been a great drop from war-days in all metal prices, but, for all this, it is to be noted that the market prices even at the end of the year are not lower than the normal pre-war prices, at which profitable mining was carried on.

During 1921 all the large copper-producers of this continent, by concerted action, reduced their output to about 25 per cent. of normal, or shut down entirely, so as to reduce the stocks of copper on hand; but we now hear of some of these companies preparing to start up again, which is a sign tending to optimism for the future of the copper market, although it is doubtful if the copper market will go higher than 14 cents a pound for some years yet.

There has been a market for copper at a low price, but during most of the year no demand for lead or zinc, and a great amount of such metals in refined state accumulated at the Trail smelter to an extent that prohibited the purchase of such ore by the custom smelters, which cause absolutely shut down many of the Slocan mines.

During the latter part of the year the Trail smelter, it is reported, was fortunate in finding an outlet in the Orient for the greater part of its accumulated lead and zinc stocks on hand, which again permitted prompt cash payment for ores of these metals to be made, and thus again started up these mines in the Slocan, so that it is probable next year will again see these properties working on a normal basis.

In 1921 the tonnage of lead and of zinc produced was greater than in 1920, due to the large production of the Consolidated Mining & Smelting Company's *Sullivan* mine in East Kootenay.

The amount of copper produced was less in 1921 than in 1920 by nearly 6,000,000 lb., but if the *Britannia* mill had not been burned down late in the fall of 1920, and this property—which can ordinarily be counted on for from 15,000,000 to 20,000,000 lb. of copper—being thus temporarily disabled, this year also there would have been an increase in copper production.

The collieries of British Columbia pretty nearly held their own, having made a net coal production of 2,483,995 tons (2,240 lb.), as against 2,595,125 tons in 1920, a decrease of 111,130 tons, equal to about 4.3 per cent.

With the exception of the year 1920, the net coal-output for 1921 is larger than any other year since 1912, or of any previous year, except 1910.

There was no coke produced in the Coast District by the collieries, although the Anyox smelter converted coal into coke for their own use.

The Crowsnest District produced 59,434 tons (2,240 lb.) of coke, of which about two-thirds was used in Canada and one-third exported to the United States.

The aggregate of the values of British Columbia colliery products in 1921 was $12,836,013, this very nearly equalling the gross value of this year's metalliferous products of $13,153,598.

It is noteworthy that the Northern Coast District produced nearly 70 per cent. to the tonnage of ore mined in British Columbia in 1921, carrying about 55 per cent. of the total value of the metalliferous output of the Province.

The following table shows the number of mines which shipped ore during the year 1921, the districts in which they are situated, and the tonnage produced in each district, together with the number of men employed, both above ground and underground.

In explanation of the table it should be said that, in its preparation, a mine employing twelve men for four months is credited in the table with four men for twelve months, so that the total given is less than the actual number of individuals who worked in the mines during the year.

TABLE SHOWING DISTRIBUTION OF SHIPPING MINES IN 1921.

	Tons of Ore shipped.	No. of Mines shipping.	No. of Mines shipping over 100 Tons in 1921.	Men employed in these Mines.		
				Below.	Above.	Total.
CARIBOO DISTRICT:						
Omineca	71	2	..	5	4	9
CASSIAR DISTRICT:						
Atlin, Stikine	55	1	..	4	5	9
Queen Charlotte, Portland Canal, Skeena, and Nass River	1,061,288	7	5	463	392	855
EAST KOOTENAY DISTRICT:						
Fort Steele	298,516	5	3	177	159	336
Windermere-Golden	440	1	1	6	2	8
WEST KOOTENAY DISTRICT:						
Ainsworth	5,523	17	6	52	24	76
Slocan and Slocan City	5,692	20	7	78	62	140
Nelson and Arrow Lake	11,048	4	1	33	26	59
Trail Creek	89,107	5	2	185	56	241
Revelstoke, Lardeau, and Trout Lake	31	2	..	3	1	4
BOUNDARY-YALE DISTRICT:						
Greenwood, Grand Forks, and Osoyoos	41,658	9	5	96	49	145
Similkameen, Nicola, and Vernon	.....	..	..	...	...	...
Yale, Ashcroft, and Kamloops	.....	..	..	...	...	...
LILLOOET DISTRICT	500	1	1	3	10	13
SOUTHERN COAST DISTRICT, V.I.	1,331	5	3	8	9	17
SOUTHERN COAST, MAINLAND	47,385	1	1	104	83	187
Total	1,562,645	80	35	1,217	882	2,099

In the following table of the non-shipping mines the returns are necessarily incomplete, as they include only the mines reporting to the Department, and not the prospects and properties under preliminary development, which in the aggregate give employment to a large number of men.

TABLE SHOWING NON-SHIPPING MINES AND MEN EMPLOYED IN 1921.

District.	Number of Mines.			Men employed.		
	Working.	Idle.	Total.	Below.	Above.	Total.
CARIBOO AND CASSIAR	8	18	26	14	4	18
EAST KOOTENAY	3	11	14	3	4	7
AINSWORTH	6	21	27	12	2	14
SLOCAN	16	35	51	33	8	41
NELSON	7	16	23	9	4	13
TRAIL CREEK	..	5	5	..	1	1
REVELSTOKE-LARDEAU	7	2	9	12	10	22
BOUNDARY-YALE	22	42	64	52	55	107
LILLOOET	1	3	4	1	1	2
SOUTHERN COAST	3	14	17	2	4	6
Totals	73	167	240	138	93	231

SUMMARY OF STATISTICAL TABLES.

Referring to the preceding tables of the mineral production of the Province, the following is a summary of their contents:—

TABLE I. shows the total gross value of each mineral product mined in the Province up to the end of 1921, aggregating $734,259,619. From this table it will be seen that coal-mining has produced more than any other separate class of mining, a total of $225,409,505; followed next in importance by copper at $166,393,488, and next in order is lode gold at $105,557,977, with placer gold in fourth place at $76,177,403.

TABLE II. shows the value of the total production of the mines of the Province from 1852 to 1892 (inclusive) and for each year from 1893 to 1921 (inclusive), during which period the output increased tenfold, and had a gross production for the year 1921 of $28,066,641.

The value of the total mineral production of the Province up to the end of 1921 was $734,259,619.

TABLE III. gives the quantities in the customary units of measure, and the values, of the various metals or minerals which go to make up the total of the mineral production of the Province, and also, for the purpose of comparison, similar data for the two preceding years.

The table shows that there has been this year an increase in the production of placer gold of $11,600 and an increase in output of lode gold of $322,762, making a total increase of $334,362 in the total production of the precious metal.

The amount of silver produced this past year was 2,673,389 oz., having a gross value of $1,591,201, a decrease in the number of ounces produced of 704,460.

The table shows an output of lead amounting to 41,402,288 lb., valued at $1,693,354, an increase in quantity of 2,071,070 lb., but a decrease in value of $1,122,761.

The production of copper this year was 39,036,993 lb., valued at $4,879,624, a decrease in amount of 5,850,683 lb., or about 13 per cent. The value of the product was less than that of the preceding year by $2,953,275, due to lower prices.

The other metals are specifically mentioned under the headings which follow this summary.

TABLE IV. shows the proportions of the total mineral productions made in each of the various districts into which the Province is divided.

It will be noted that this year the Southern Coast District has again the honour of first place on the list, followed, in order of importance, by the East Kootenay, Cassiar, West Kootenay, and Boundary Districts. The Southern Coast and East Kootenay Districts owe a considerable proportion of their output to the coal-mines situated within their limits, whereas, in the other districts, the production is chiefly from metal-mining.

The Southern Coast District also derives a fair proportion of its production from "Miscellaneous products," such as building materials, etc., due to the larger cities therein; this year this amounted to $1,744,572, as shown in Table V.

TABLE V. is an endeavour to show in some detail the production of those products, such as building materials, previously summarized under "Miscellaneous products," and which amounts this year to $2,077,030. Much difficulty has been found in obtaining reliable figures regarding these products, and in many cases they have had to be estimated; but, while the figures are not as complete as desired, they are at least approximate, and show what an important branch of mineral production this has become, despite the falling-off due to the war and depressed financial conditions.

TABLE VI. shows the statistical record of the placer mines of the Province from 1858 to 1921, and shows a total production of $76,177,403. The output for 1921 was $233,200, an increase, as compared with the previous year, of $11,600.

TABLE VII. relates entirely to the lode mines of the Province, and shows the quantities and values of the various metals produced each year since the beginning, in 1887, of such mining in the Province. The gross value of the product of these mines to date is $397,390,056; this figure includes the zinc production of 1909 and all subsequent years.

TABLE VIII. contains the statistics of production of the coal-mines of the Province. The total net amount of coal produced to the end of 1921 was 56,693,490 tons (2,240 lb.), worth $201,209,783. Of this, there was produced in 1921 2,483,995 tons valued at $12,419,975. In these figures of coal production the coal used in making coke is not included, as such coal is accounted for in the figures of output of coke. The amount of coal used in making coke in 1921 was 85,644 tons, from which was made 59,434 tons of coke, having a value of $416,038, a decrease in amount from the preceding year of 8,358 tons. The total value of the output of the collieries of the Province in 1921 was $12,836,013.

More detailed statistics as to the coal production of the Province and of the separate districts are given elsewhere in this Report.

TABLE IX. gives the details of production of metalliferous mines of the Province for the years 1918, 1919, 1920, and 1921, and the districts in which such productions were made, showing the tonnage of ore mined in each district, with its metallic contents and its market value.

The total tonnage of ore mined in the Province during the year 1921 was 1,562,645 tons, having a gross value of $12,920,398, and, with the placer gold, a total value of $13,153,598.

The following table shows the tonnage derived from the various districts of the Province:—

Cassiar and Omineca District	1,061,414
Southern Coast District	48,716
Boundary-Yale District	41,658
Slocan Mining Division	5,692
East Kootenay District	298,956
Trail Creek Mining Division	89,107
Ainsworth Mining Division	5,523
Nelson Mining Division	11,048
Other Mining Divisions	531
Total	1,562,645

In reports previous to 1910 there has been included in Table IX. the "Miscellaneous products," and in 1910 these were shown distributed to the various districts; the great increase of these products in the past few years has rendered it advisable that this table be reserved exclusively for metalliferous products, and so a new table (No. V.) was introduced in 1911, giving in some detail the output of these miscellaneous products.

In making comparisons of this table with similar tables in previous reports, the fact that "Miscellaneous" has been removed will have to be borne in mind.

Table X. presents in graphic form the facts shown in figures in the tables, and demonstrates to the eye the rapid growth of lode-mining in the Province, and also the fluctuations to which it has been subject.

It will be seen that, although coal-mining has been a constantly increasing industry during this whole period of thirty years, lode-mining did not begin, practically, until 1894, since when it has risen with remarkable rapidity, though not without interruption, until it reached its maximum in 1916, the $31,500,000 line. The total mineral production in 1910 reached the $26,000,000 line, in 1912 it reached the $32,000,000 line, in 1916 the $42,000,000 line, in 1920 it reached the $35,500,000 line, while this year it is just a little above the $28,000,000 line.

GOLD.

Placer Gold. The recovery of placer gold for 1921 was $233,200, of which practically all was obtained in the Cariboo and Cassiar Districts, only about one-twentieth of the total coming from the other districts. An approximate apportionment is as follows: From Cariboo District, $70,400; Atlin, Stikine, and Liard Divisions of Cassiar District, $146,200; remaining parts of the Province, $16,600. This production for 1921 shows an increase over the preceding year of $11,600, or about 5.2 per cent.

During the past four years the production of placer gold in the Province steadily decreased. The chief reason is to be found in the economic conditions of high prices for labour and supplies, which made placer-mining less profitable than in former years. Shortage of labour also handicapped operations.

Information available regarding the Atlin Division shows that the production was somewhat greater than in 1920, although some of the former operating companies were closed down during the year.

Gold from Lode-mining. The value of lode gold produced in 1921 was $2,804,154, as compared with $2,481,392 in 1920, an increase of $322,762, or about 13 per cent. During the year 1919 the Granby Company closed its mines and smelter in the Boundary-Yale District and therefore made no production in that district during the past year. The low-grade copper ore handled carried small gold and silver values, and in former years this gold production amounted to a considerable total. The *Nickel Plate* mine in this district also made no production, the mine being closed down in September, 1920, remaining closed during 1921, so the output from this district became negligible.

The Rossland mines, which prior to 1917 contributed annually about one-half of the output of lode gold, made a decreased production in 1920 as compared to the preceding year; but during 1921 somewhat recovered, exceeding the 1920 production, but not reaching that of 1919 by 5,000 oz.

The very small gold-output of the Southern Coast District is due to the shut-down of the *Britannia* mine owing to fire and flood.

The following table shows the gold production of 1919, 1920, and 1921:—

District.	1919.	1920.	1921.
	Oz.	Oz.	Oz.
Cassiar District	60,076	54,531	85,185
Rossland (Trail Creek)	50,229	36,425	44,980
Boundary-Yale	33,526	20,687	735
Coast (Southern)	5,514	6,031	750
Lillooet	2,506	120	374
Nelson	297	1,924	3,587
All others	278	330	52
Totals	152,426	120,048	135,663

From the above table it will be seen that the only districts showing marked increases are the Cassiar, Nelson, and Rossland Districts. In the latter case the increase is small. The output in Cassiar is mainly from the *Surf Inlet* mine, and the new shipper—namely, the *Premier* in the Salmon River section. The outlook for the future in this latter district is most promising and a largely increased production of gold and other metals may be expected.

The increase in Nelson Division is mainly due to the *Nugget* mine being again operated. Developments in this district at present under way may bring the production up again to that of former years.

The production of gold in British Columbia during each of the last four years has only been about one-half of the annual output immediately preceding the war, and shows that gold-mining in this Province has, as elsewhere in the world, been adversely affected by the conditions of high costs and a standard price for the product. Nevertheless, from the developments now in progress it would seem that in a short time the annual production of gold in British Columbia should increase considerably.

SILVER.

The quantity of silver produced was 2,673,389 oz., worth $1,591,201, a decrease from the production of 1920 in quantity of 704,460 oz., and a decrease in value of $1,644,779, or nearly 50 per cent.

The market price of silver gradually and steadily fell during the whole year of 1920, but rose again in 1921. The average price for the year 1920 was 100.9 cents an ounce, while for 1921 it was 62,65 cents.

An accompanying diagram illustrates the fluctuations of market prices (pages 15 and 16).

The following table shows the silver production for 1919, 1920, and 1921:—

District.	1919.	1920.	1921.
	Oz.	Oz.	Oz.
Slocan and Slocan City	1,556,714	738,515	188,142
Skeena, Nass, etc.	920,413	1,317,832	1,563,999
Boundary-Yale	231,599	390,994	160,051
Fort Steele	205,500	362,143	546,631
Ainsworth	167,453	266,963	115,772
Rossland	....	....	60,184
Coast (Southern)	104,806	93,417	8,548
Omineca	72,573	103,020	3,745
Windermere-Golden	68,634	53,510	18,508
Nelson	44,280	7,065	2,130
All others	31,147	44,390	5,679
Totals	3,403,119	3,377,849	2,673,389

The above table shows an increase in the silver production from the Skeena and Fort Steele Districts, with decreases in all the others.

The greatest increase was made in the Skeena District and is accounted for by new shippers entering the lists. Of these, the *Premier* and the *Alice Arm* mines give promise of swelling the silver production very materially during future years.

The greatest decrease is found in the Slocan District, where mining has been greatly retarded due to the greatly reduced market value of silver and its associated metals, lead and zinc, which latter two metals were nearly unsaleable for most of the year, and has nothing to do with the mines proper.

It is a pleasing surprise to find a very considerable output in the Boundary-Yale District, despite the cutting-off of the production of the Granby and Canada Copper Corporation, which formerly produced 50 per cent. of the silver of the district.

The silver-output of this district this year is chiefly derived from the *Providence*, *Horn Silver*, *Sally*, and *Bell* mines.

COPPER.

The amount of copper produced in 1921 shows, as compared with the previous year, a decrease in quantity, and owing to the lower market selling-price, a still greater decrease in value. The production was 39,036,993 lb., which is 5,850,683 lb. less than the 1920 output; the value for this year is $4,879,624, which, compared with $7,832,899 made in 1920, shows a decrease of $2,953,275.

The demoralized condition of the copper market during 1919 was referred to somewhat fully in the report for that year, so that it is not necessary to further discuss it here.

The following table shows the production of copper, according to districts, in 1919, 1920, and 1921:—

District.	1919.	1920.	1921.
	Lb.	Lb.	Lb.
Cassiar (Skeena, Nass, etc.)	20,411,421	26,153,406	34,841,767
Coast (Southern)	17,062,100	16,311,962	1,456,146
Boundary-Yale	3,835,516	1,306,515	432,505
Trail Creek Division	1,112,133	1,113,085	2,277,392
All others	38,169	2,708	29,183
Totals	42,459,339	44,887,676	39,036,993

From the above table it will be seen that there has been a large increase in the Skeena and in the Trail Creek Division. In the Coast (Southern) District the main producer has been the *Britannia*, and this property mined and milled a larger tonnage in 1920 than in any previous year; but the mine had its mill burned down almost at the beginning of the year, so that it did no productive mining in 1921, thus depriving the district of an expected output of about 15,000,000 lb. of copper and also of considerable gold and silver.

In June, 1919, the Granby Company was forced to close down the low-grade mines at Phoenix and smelter at Grand Forks, resulting in a great decrease in the copper production of Boundary-Yale District.

The Granby Company made an increased production at its mines and smelter at Anyox, with the result that the copper production was greater than that of last year by about 8,000,000 lb.

The *Marble Bay* mine at Vananda was not operated during the year.

The *Rocher Déboulé* mine, in Omineca Division, was closed all year, with the result that practically no copper was produced in that district.

LEAD.

The total amount of lead produced in 1920 was 41,402,288 lb., valued at $1,693,354. This represents, as compared with the previous year, an increase in quantity of 2,071,070 lb., but a decrease in value of $1,122,761.

Immediately after the Armistice and during early part of 1919 the price of lead in New York fell to 5 cents, but by the end of the year had gradually risen to 8 cents, and remained at about

that price until September, 1920, when, in company with all the other metal prices, it fell rapidly, and at end of the year had reached the pre-war standard of about 4 cents. The average price for 1921 was 4.54 cents.

The following table shows the production of lead, according to districts, for the years 1919, 1920, and 1921:—

District.	1919.	1920.	1921.
	Lb.	Lb.	Lb.
Fort Steele	10,729,483	26,926,319	38,066,820
Slocan	12,156,845	6,135,581	1,614,425
Ainsworth	4,336,602	4,072,807	1,264,845
Windermere-Golden	1,659,279	1,095,486	385,000
Nelson	292,010	719,219	1,301
Grand Forks	.....	.....	51,268
All others	301,749	381,806	18,629
Totals	29,475,968	39,331,218	41,402,288

From the above table it will be seen that there was an increase in Fort Steele and a decrease in all other districts.

The Fort Steele District this year made an output over treble that of 1919, and this year leads all the other districts, producing over 90 per cent. of total lead-output of Province. This great increase is due to the great output of the *Sullivan* mine, owned by the Consolidated Mining and Smelting Company, of Trail. The *North Star* mine produced about 41,202 lb. lead.

In the Slocan District the heaviest producer in 1921 was the *Silversmith*, followed by the *Rosebery-Surprise* and *Standard*.

In the Ainsworth Division the largest producer was the *Florence*, with an output of about 610,205 lb., followed by the *Bluebell*, with approximately 379,520 lb., and thirteen smaller shippers.

The production from Windermere-Golden was chiefly from the *Paradise* mine, with a production of about 385,000 lb.

ZINC.

The quantity of zinc produced in 1921 amounted to 49,419,372 lb., which, compared with 47,208,268 lb. produced in 1920, shows an increase of 2,211,104 lb. This production is valued at $1,952,065, which shows a decrease, as compared with the 1920 value, of $1,125,914, or about 37.5 per cent.

The zinc market was not as much affected as the copper and lead markets by the transition period from war demands to peace conditions, with the result that the price of the metal did not fluctuate greatly and production continued uninterruptedly.

During the latter half of 1920, although the prices of the metal were sustained, there were but small sales and the market for zinc ore disappeared, while many zinc-smelting plants and mines on this continent closed down temporarily at least.

The average price in New York for the year 1921 was about 4.65 cents a pound; the market price at end of the year was about 4.85 cents.

The following table shows the production of zinc, according to districts, for the years 1919, 1920, and 1921.

District.	1919.	1920.	1921.
	Lb.	Lb.	Lb.
Fort Steele	46,460,703	42,881,092	49,319,198
Slocan	10,015,624	3,715,471	65,984
Omineca	224,539	453,512	11,561
Ainsworth	36,785	158,193	22,629
All others	.....	.....	.....
Totals	56,737,651	47,208,268	49,419,372

Some uncertainty was felt as to the production of zinc this year, as labour troubles have been general in the zinc-producing districts and considerable ore has been shipped to the United States.

From the above table it would seem that practically all of the zinc ore mined in the Province this last year was from the Fort Steele District. The output in this district was made chiefly by the *Sullivan* mine, and was due to a large tonnage being sent to the Consolidated Company's electrolytic zinc-refinery at Trail, where the ore is treated.

In the Slocan District the heaviest shipper was the *Bosun*, with a production of 52,612 lb. The next largest shipper was the *Canadian*, followed by the *Ivanhoe*.

The figures for Ainsworth show a greatly decreased production.

The Omineca production is entirely a silver-zinc concentrate from the *Silver Standard* mine at Hazelton.

OTHER MINERALS.

Iron. So far there has been no metallic iron produced in British Columbia, but it has been strongly advocated in many quarters that the conditions are favourable for the establishment of an iron-smelting plant somewhere on the British Columbia coast. So far nothing definite has materialized, although there is apparently a prospect of such a plant being established. As is well known, there is on the Coast, in the aggregate, an adequate supply of magnetite-iron ore, quite sufficiently free from impurities as to be within the "Bessemer limit" to supply ore for such a plant.

Further investigation of the Taseko limonite-deposits was made during 1920 by a party sent out by the Department of Mines. The deposits were also examined in detail by Dr. J. D. MacKenzie, of the Geological Survey of Canada.

The only shipments of iron ore made this past year were 985 tons from the *Good Hope*, Texada island, and 25 tons from the Puget Sound Iron Company, Texada island.

Platinum. The well-known fact of the wide occurrence of platinum throughout the Province in connection with our placer-gold deposits gives reasonable hope that such may be found in payable quantities and justifies further investigations. As far as reports received indicate, the only output this year is about $100 worth from the Similkameen District.

Molybdenite. Since the Armistice the market is dormant, like other metal prices, but nominal quotations vary from 45 to 50 cents a pound. No advice has been received of any shipment this year.

Chromite. In 1918 about 800 tons of chromite ore, carrying from 30 to 45 per cent. chromic oxide, was shipped from the *Mastodon* claim, Grand Forks Division; and a deposit on Scottie creek, near Clinton, was opened up, but no shipments were made. With the end of the war the market for chromite temporarily collapsed, as large stocks were available, with no purchasers in sight. It is believed that no ore was shipped since that date.

No manganese was produced in 1921.

Non-metallic Minerals. About 6,742 tons of fluorspar concentrates was shipped from the *Rock Candy* group, in the Grand Forks Division. This property is owned by the Consolidated Mining and Smelting Company and is equipped to make steady shipments in the future. The growth of this property has been very interesting during the last two or three years. The property is now equipped with an efficient concentrating mill, which produced concentrates carrying about 88.5 per cent. calcium fluoride and 5.3 per cent. silica, and having a total value of about $157,000. The mineral is shipped to Trail smelter and is used for making hydrofluoric acid, which is used in the lead-refinery, and to other points in Canada and to the United States.

The Lillooet Soda Company produced 200 tons of sodium carbonate.

Deposits of hydromagnesite in the Clinton Division, which are reported to be large and of great purity, have attracted considerable attention during the past year. A shipment of 1,000 tons was made to Vancouver.

No arsenic was produced in 1921.

Talc.—Some 167 tons of talc was mined and ground in the Victoria Mining Division, for which product there appears to be a large demand.

Iron Pyrites.—At the *Sullivan* mine in East Kootenay some 1,121 tons of iron pyrites was mined and shipped to Trail.

COAL.

The gross production of coal in 1921 was 2,569,639 long tons, of which 85,644 tons was made into coke, leaving the net production at 2,483,995 tons. These figures show a decrease, as compared with 1920, of 127,135 tons gross and of 111,130 tons net. The quantity of coke made was 59,434 tons, which is a decrease of 8,358 tons as compared with 1920. For purposes of comparison the following table is shown:—

	1916.	1917.	1918.	1919.	1920.	1921.
Coal, gross.....tons, 2,240 lb..	2,485,580	2,398,715	2,578,724	2,408,948	2,696,774	2,569,639
Less made into coke "	401,487	248,740	276,479	141,407	101,649	85,644
Coal, net..... "	2,084,093	2,149,975	2,302,245	2,267,541	2,595,125	2,483,995
Coke made..... "	267,725	159,905	188,967	91,138	67,792	59,434

Summarizing the Provincial gross production of coal, the following table shows the output:—

	1918.	1919.	1920.	1921.
Vancouver Island mines.....tons, 2,240 lb.	1,666,211	1,699,348	1,698,254	1,625,931
Nicola and Similkameen mines..... "	179,179	149,042	149,731	183,153
Crowsnest mines..... "	732,864	558,806	847,389	759,755
Omineca-Telkwa ..... "	470	1,752	1,400	800
Total quantity of coal mined.. "	2,578,724	2,408,948	2,696,774	2,569,639
Less made into coke..... "	276,479	141,407	101,649	85,644
Net quantity of coal produced "	2,302,245	2,267,541	2,595,125	2,483,995

In addition to the above net production of coal, there was made by the collieries the coke production shown in the following table:—

	1918.	1919.	1920.	1921.
Vancouver Island collieries.....tons, 2,240 lb.	24,887	34,071	*Nil*	*Nil*
Nicola and Similkameen collieries... "	*Nil*	*Nil*	*Nil*	*Nil*
Crowsnest District collieries..... "	164,080	57,067	67,792	59,434
Total coke production..... "	188,967	91,138	67,792	59,434

As will be seen from the above figures, the net coal production this year is 111,130 tons less than it was in 1920, and greater than it has been since 1912, except in 1920.

The greater part of the gross Provincial coal production is still being mined by three companies—the Crow's Nest Pass Coal Company of East Kootenay, the Canadian Collieries (Dunsmuir), and the Western Fuel Corporation of Vancouver island, which mined, collectively, 77 per cent. of the gross output.

Of the other collieries: In the Coast District, on Vancouver island, the Pacific Coast Coal Mines, Limited, produced only 29 tons, having been in litigation; the Nanoose Collieries, Limited, 50,206 tons; and the Granby Company, from their colliery near Cassidy, produced 268,962 tons. In the Nicola Valley section of the district, the Middlesboro Colliery Company mined 67,792 tons; the Fleming Coal Company, 35,391 tons; the Princeton Coal and Land Company, 13,966 tons; the Coalmont Colliery, 63,344 tons; and the Chu Chua Colliery, 2,160 tons of coal.

A new coalfield has been opened up in the Omineca District, where a small colliery is being developed on the Telkwa river that last year shipped 800 tons of coal. For convenience this has been included in the Coast District figures.

In the East Kootenay District, in addition to the Crow's Nest Pass Coal Company, which produced 691,824 tons, the Corbin Coal and Coke Company produced 67,931 tons.

The collieries of the Coast District, including the Nicola-Princeton and Telkwa fields, are to be credited this year with about 70 per cent. of the total coal-output.

The gross output of the collieries of the Province for the past year was, as already stated, 2,569,639 tons; there was also 4,718 tons of coal taken from stock.

Of this gross amount, there was sold for consumption in Canada, 1,269,566 tons; sold for consumption in the United States, 815,441 tons; sold in other countries, *nil;* making the total coal sales for the year 2,085,007 tons of 2,240 lb.

In addition to the coal sold, there was used in the manufacture of coke 85,644 tons, and used under companies' boilers, etc., 213,558 tons; while 190,148 tons was lost in washing and screening.

The coke sales of the Province for the past year amounted to 59,970 tons, of which 536 tons was taken from stocks on hand.

The following table indicates the markets in which the coal and coke output of the Province was sold:—

Coal.	Coast District.	Crowsnest Pass District.	Total for Province.
Sold for consumption in Canada ....tons, 2,240 lb.	1,165,305	104,261	1,269,566
" export to United States .... "	320,110	495,331	815,441
" export to other countries .... "	.....	.....	.....
Total coal sales	1,485,415	599,592	2,085,007
Coke.			
Sold for consumption in Canada ....tons, 2,240 lb.	.....	41,878	41,878
" export to United States .... "	.....	18,092	18,092
" export to other countries .... "	.....	.....	.....
Total coke sales	.....	59,970	59,970

COLLIERIES OF COAST DISTRICT.

The collieries of the Coast District, which includes those on Vancouver island and in the Nicola-Princeton fields, and a small colliery on Telkwa river mined 1,809,884 tons of coal in 1921, in addition to which 18,577 tons was taken from stock, making 1,828,461 tons distributed from these collieries in 1921. This amount was distributed thus:—

	Tons.	Tons.
Sold as coal in Canada	1,165,305	
Sold as coal in United States	320,110	
Sold as coal in other countries	*Nil.*	
Total sold as coal		1,485,415
Used under companies' boilers, etc.		152,898
Used in making coke		.....
Lost in washing, etc.		190,148
		1,828,461
Minus coal taken from stock		18,577
Gross output		1,809,884

The total coal sales of the Coast collieries for the year show, as compared with the sales of the previous year, a decrease of 14,112 tons, equivalent to about 1 per cent.

The coal sold in Canada by the collieries of the Coast District this year shows a decrease of 13,624 tons, or about 1.15 per cent. from the preceding year; the amount exported to the United States was 7,159 tons more than the preceding year, an increase of about 2.2 per cent.

There was no coke produced in the Coast District this year.

On Vancouver island five companies produced coal this year—the Canadian Collieries, Limited, the Canadian Western Fuel Company, the Granby Consolidated Mining, Smelting, and Power Company, the Pacific Coast Coal Mines, and the Nanoose Collieries, Limited; the majority of these companies each operate two, or more, collieries. The combined gross output of the Island collieries was 1,625,931 tons.

In the Nicola and Princeton coalfields of the Coast District, the Middlesboro Colliery Company produced 67,792 tons of coal; the Fleming Coal Company, 35,891 tons; the Princeton Colliery, 13,966 tons; the Coalmont Collieries, 63,344 tons; and the Chu Chua Collieries, 2,160 tons.

The total output of this portion of the sub-district was 183,153 tons. The Telkwa Collieries produced 800 tons.

East Kootenay Coalfield.

There were only two companies operating in this district this past year—the Crow's Nest Pass Coal Company, operating two separate collieries, the combined output of which was 691,824 tons; and the Corbin Coal and Coke Company, which made an output of 67,931 tons; making a gross output for the district for 1921 of 759,755 tons of coal.

Of the coal mined, 13,859 tons was added to stock, making the amount of coal distributed from the collieries 745,896 tons.

Of this gross tonnage, 85,644 tons was used in the manufacture of coke, of which there was produced 59,434 tons (2,240 lb.).

The coke sold this year amounted to 59,970 tons, in addition to which 536 tons was taken from stock.

The following table shows the distribution made of the coal of this district:—

	Tons.	Tons.
Sold as coal in Canada	104,261	
Sold as coal in United States	495,331	
Total sold as coal		599,592
Used by the companies in making coke		85,644
Used by the companies under boilers, etc.		60,660
		745,896
Plus coal added to stock		13,859
Gross output		759,755

BUILDING MATERIALS.

The output during 1921 of structural materials, such as cement, lime, building-stone, sand and gravel, brick and other clay products, was less than in the preceding year, being $1,903,799 as against $2,176,460.

Approximately 90 per cent. of the total production of building materials comes from the Coast District, and the larger part of this finds its markets in the Coast cities.

It is probable that an output amounting to about $1,500,000 represents the steady yearly demand for these materials for use in repairs, renewals, and various small demands, with but little new construction-work.

Cement production is less than 1920.

Building-stone.

Public works and several large buildings have caused the quarrying of a good deal of building-stone, and the production in 1921 is valued at $233,650.

Excellent building-stone of various sorts is found in abundance in almost every part of the Province; the fact of its widespread distribution has, however, been somewhat against the establishment of large quarrying industries, as a sufficient local supply could always be obtained, and, except within reach of the larger cities, few regularly equipped quarries have been opened.

On the Coast, chiefly between Vancouver island and the Mainland, there are several well-equipped quarries taking out granite, sandstone, and andesite, all of excellent quality. These quarries supply the stone building material of the Coast cities, and have also exported to the United States.

A detailed description of the more important quarries was given in the Report of this Bureau for 1904.

Red Brick. The sale of red brick during the past year was about 6,000 M.; the price varies from $12 to $18 a thousand, according to quality and demand. This small output shows very clearly that but little construction-work has been carried on. It is probable, however, that a considerable quantity of brick is still imported into the Province.

Firebrick. The only company producing firebrick in the Province is the Clayburn Company, Limited, with a plant at Clayburn. The fireclay is found here as a bed occurring in bedded rocks of Eocene age. Shales, sandstones, and conglomerates, all but little consolidated, make up this sedimentary series. The shales are quarried or mined for brick-making and one bed is an excellent fireclay. Associated with these rocks is a bed of lignite which is sufficiently good to be used for firing the boilers of the plant. Firebrick is the principal manufactured article produced by this company, but, in addition, considerable quantities of common brick, paving-brick, tiles, drain-pipes, and prepared fireclay are made.

Lime. The manufacture of lime is conducted in a small way at a large number of points in the Province, but only on the Coast has any attempt been made at more extensive operations. In the neighbourhood of Victoria, on Esquimalt harbour, two kilns are in operation, and there are two kilns on Saanich inlet. On Texada island —in addition to the plant at Marble bay—a new and extensive plant was erected at Blubber bay a few years ago. The limestone being used is of exceptional purity, but in some instances the limestone-beds are cut by igneous dykes which have to be rejected, and this somewhat increases the cost of quarrying.

The production of lime and limestone for 1921 is valued at $299,191, as compared with $338,151 in 1920; of this about $25,865 worth of limestone was quarried for use as smelter flux by the Granby and Consolidated Companies and $19,595 worth quarried by the paper and pulp mills for their own use.

Portland Cement. There were two large and well-equipped cement plants in the Province, both situated on Saanich inlet. These two concerns have recently been amalgamated under the name of the British Columbia Cement Company, with plant at Tod inlet, which made a production in 1921 of over $600,000. Portland cement is thus the most important item in the production of building materials.

Crushed Rock and Gravel. The returns for crushed rock and gravel indicate an increased demand for this material, although some of the plants have not been in operation for the past two or three years. During the boom years of 1911 and 1912 a number of well-equipped plants were put up near Vancouver and Victoria for supplying washed sand and gravel, properly screened to size. Some of these companies use a system of mining the gravel by hydraulic streams and carrying the product to the screens by the water used.

BUREAU OF MINES.

WORK OF THE YEAR.

The work of the Bureau of Mines naturally increases year by year, this growing activity being due to the following causes: The extension of the mining area of the Province, with the proportional increase in the number of mines; the increasing desire of the outside public for the free information which the Bureau supplies with regard to the various mining districts and camps, and the appreciation by the prospector of the fact that he may obtain, gratis, a determination of any rock or mineral which he may send to the Bureau.

The routine work of the office, and the preparation and publication of the Report for the year just ended, followed by the examination in the field of as many of the mines and mining districts as the season would permit, together with the work of the Laboratory, fully occupied the staff for the year.

The permanent staff of the Bureau now consists of the Provincial Mineralogist and Assayer, Wm. Fleet Robertson; the Assistant Provincial Assayer and Provincial Analyst, D. E. Whittaker; John Adams as Laboratory Assistant; H. T. Nation, general office assistant; and H. Pearson, clerk.

MINERAL SURVEY DISTRICTS AND RESIDENT ENGINEERS THEREOF.

During the session of 1917 the Hon. the Minister of Mines brought in the "Mineral Survey and Development Act," which was passed on May 19th, 1917, and under the provisions of which the Province was divided into six Mineral Districts, to each of which there was appointed a Resident Engineer with headquarters at a centrally located point in such district.

In the district to which he was appointed the Resident Engineer is expected to devote his whole time to the performance of the duties of his office, and to carry on continuously a mineral survey of his district, keeping records of the same and of the mining and mineral developments taking place, and at the same time to assist prospectors and others with such advice as may be necessary and may come within the scope of a mining engineer's work.

Aside from special reports which may be called for by the Minister, the Resident Engineers are expected annually to make a comprehensive report covering all matters relating to mining, mine development, and prospecting that have occurred within the year in their respective districts.

These annual reports of the Resident Engineers are given later in this general Report, and form the basis of the information given in respect to the mineral industry and its development within the Province.

The following are the six Mineral Districts into which the Province is divided, with the Mining Divisions included in each and the location of the permanent office of the district, with the name of the Resident Engineer appointed to each district:—

The North-western Mineral Survey District (No. 1) shall consist of that portion of the Province contained within the following Mining Divisions, that is to say: Atlin, Stikine, Liard, Skeena, Nass River, Portland Canal, Bella Coola, and Queen Charlotte; and shall have its permanent survey station and office at the City of Prince Rupert. Resident Engineer, Geo. A. Clothier, B.Sc.

The North-eastern Mineral Survey District (No. 2) shall consist of that portion of the Province contained within the following Mining Divisions, that is to say: Omineca, Peace River, Cariboo, and Quesnel; and shall have its permanent survey station and office at Hazelton. Resident Engineer, John D. Galloway, M.Sc.

The Central Mineral Survey District (No. 3) shall consist of that portion of the Province contained within the following Mining Divisions, that is to say: Clinton, Lillooet, Kamloops, Ashcroft, Nicola, Vernon, and Yale; and shall have its permanent survey station and office at the City of Kamloops.

It is with much regret that it has to be reported that R. W. Thomson, who has been the Resident Mining Engineer of this district since its establishment in 1917, died at Kamloops on January 6th, 1922, after a lingering illness. A successor to the position has not as yet been appointed.

The Southern Mineral Survey District (No. 4) shall consist of that portion of the Province contained within the following Mining Divisions, that is to say: Similkameen, Greenwood, Grand Forks, and Osoyoos; and shall have its permanent survey station and office at the City of Grand Forks. Resident Engineer, Philip B. Freeland.

The Eastern Mineral Survey District (No. 5) shall consist of that portion of the Province contained within the following Mining Divisions, that is to say: Golden, Windermere, Fort Steele, Ainsworth, Slocan, Slocan City, Trout Lake, Nelson, Arrow Lake, Revelstoke, Lardeau, and Trail Creek; and shall have its permanent survey station and office at the City of Revelstoke. Resident Engineer, A. G. Langley, B.Sc.

The Western Mineral Survey District (No. 6) shall consist of that portion of the Province contained within the following Mining Divisions, that is to say: Nanaimo, Alberni, Clayoquot, Quatsino, Victoria, Vancouver, and New Westminster; and shall have its permanent survey station and office at the City of Nanaimo. Resident Engineer, W. M. Brewer.

ASSAY OFFICE.

The following is a summary of the work of the Assay Office of the Bureau of Mines for the year 1921 as reported by the Assistant Provincial Assayer, D. E. Whittaker:—

During the year 1921 there were made by the staff in the Government Assay Office, 3,455 assays or quantitative determinations; of these the majority were for the Bureau of Mines or for the other departments, for which no fees were received.

The fees collected by the office were as follows:—

Fees for analyses	$ 513 55
Fees for assaying	66 50
Fees for assayers' examinations	240 00
Total cash receipts	$ 820 05
Determinations and examinations made for other Government departments for which no fees were collected—	
Attorney-General's Department	$ 712 00
Agricultural Department	585 00
Board of Health	258 00
Treasury Department	16 65
Other departments	215 00
	$1,786 65
Value of work done outside of Mines Department work	$2,606 70

The value of gold melted during the year 1921 was $775 in 11 lots, as against $3,116 in 15 lots in 1920.

Free Determinations.

In addition to the above quantitative work, a large number of qualitative determinations, or tests, were made in connection with the identification and classification of rocks or minerals sent to the Bureau for a report; of these no count was kept, nor were any fees charged, as it is the established custom of the Bureau to examine and test qualitatively, without charge, samples of minerals sent in from any part of the Province, and to give a report on the same. This has been done for the purpose of encouraging the search for new or rare minerals and ores, and to assist prospectors and others in the discovery of new mining districts, by enabling them to have determined, free of cost, the nature and probable value of any rock they may find. In making these free determinations, the Bureau asks that the locality from which the sample was obtained be given by the sender.

EXAMINATIONS FOR ASSAYERS.

REPORT OF D. E. WHITTAKER, SECRETARY OF BOARD OF EXAMINERS.

I have the honour, as Secretary, to submit the Annual Report for the year 1921 of the Board of Examiners for Certificates of Competency and Licence to Practise Assaying in British Columbia, as established under the "Bureau of Mines Act Amendment Act, 1899."

Examinations were held in Victoria, in the Government Laboratory, on April 11th, May 17th, and December 12th and the following days. Thirteen candidates came up for examination. Seven obtained the required number of marks and the Board recommended that Certificates be granted to them. Three candidates applied for exemption under section 2, subsection (2), of the Act, and the Board recommended that Certificates be issued to them.

In accordance with the recommendation of the Board, Certificates have been duly issued by the Honourable the Minister of Mines to the ten candidates.

LIST OF ASSAYERS HOLDING PROVINCIAL CERTIFICATES OF EFFICIENCY UNDER THE "BUREAU OF MINES ACT AMENDMENT ACT, 1899."

(Only the holders of such certificates may practise assaying in British Columbia.)

Under section 2, subsection (1).

Adams, J. B. .....Victoria.
Archer, E. G. .....Anyox.
Armstrong, N. .....Vancouver.
Ayres, D. A. .....
Austin, John W. .....Vancouver.
Backus, Geo. S. .....Britannia Beach.
Baker, C. S. H. .....
Bagus, N. J. .....Vancouver.
Barke, A. C. .....
Beilby, E. B. .....Vancouver.
Bernard, Pierre .....Monte Christo, Wash.
Bishop, Walter .....Grand Forks.
Broughton, F. W. .....Vancouver.
Buchanan, James .....Trail.
Buehman, A. S. .....Trail.
Campbell, Colin .....New Denver.
Carmichael, Norman .....Clifton, Arizona.
Church, George B. .....
Clarke, E. R. .....Vancouver.
Cobeldick, W. M. .....Scotland.
Collison, H. .....Cobham, England.
Comrie, George H. .....Vancouver.
Craufurd, A. J. F. .....Rossland.
Crerar, George .....
Crompton, S. V. .....Vancouver.
Cruickshank, G. .....
Davidson, J. R. .....Vancouver.
Day, Athelstan .....Dawson.
Dedolph, Ed. .....
Dockrill, Walter R. .....Chemainus.
Dunn, G. W. .....Rossland.
Farquhar, J. B. .....Vancouver.
Fingland, John J. .....Kaslo.
Gardner, C. S. .....Victoria.
Grosvenor, F. E. .....Vancouver.
Hamilton, Wm. J. .....Anyox.
Hannay, W. H. .....Rossland.
Harsant, R. C. C. .....Port Essington.
Hart, P. E. .....
Hawkins, Francis .....Silverton.
Hawes, F. B. .....Vancouver.
Hodgson, A. R. .....Anyox.
Hook, A. Harry .....Greenwood.
Hurter, C. S. .....Prince Rupert.
Irwin, George E. .....Vancouver.
John, D. .....Haileybury, Ont.
Kiddie, Geo. R. .....California.
King, R. .....
Kitto, Geoffrey B. .....Victoria.
Lang, T. F. .....Vancouver.
Langley, A. S. .....Crofton.
Laucks, I. F. .....Seattle.
Lee, Fred E. .....Trail.
Lee, Geo. M. .....Grand Forks.
Ley, Richard H. .....Victoria.
Levy, Frank .....
Lindsay, W. W. .....Kimberley.
Locke, V. F. .....Vancouver.
Longworth, F. J. .....Boyds, Wash.
Manning, S. M. .....Trail.
Martin, S. J. .....
Marsh, Richard .....Republic, Wash.
Marshall, H. Jukes .....Vancouver.
Marshall, William S. .....Ladysmith.
Meale, Eric A. .....East Helena, Mont.
Merrifield, T. T. .....Trail.
Miles, Arthur D. .....
Milne, A. S. .....Vancouver.
Mitchell, Charles T. .....Copper Cliff, Ont.
McCormick, Alan F. .....Ruth, Nevada.
MacDonald, Alec C. .....Vancouver.
McLellan, R. D. .....Vancouver.
Morgan, Richard .....Trail.
Nicholls, Frank .....Norway.
Okell, S. E. .....Vancouver.
Parker, Robt. H. .....
Parsenow, W. L. .....
Perkins, Walter G. .....
Pickard, T. D. .....Vancouver.
Pirrie, Noble W. .....Ottawa, Ont.
Poole, H. W. .....Vancouver.
Prior, C. E. .....Hedley.
Richmond, Leigh .....Duncan.
Robertson, T. R. .....
Rodgers, Ch. B. .....Vancouver.
Rombauer, A. B. .....Butte, Mont.
Schroeder, Curt A. .....
Segsworth, Walter .....Toronto, Ont.
Shepherd, G. H. .....North Vancouver.
Sharpe, Bert N. .....
Shore, J. T. .....Vancouver.
Sim, Chas. John .....Monte Carlo.
Sloan, Wm. .....Vancouver.
Snyder, Blanchard M. .....
Steven, Wm. Gordon .....
Stimmel, B. A. .....Trail.
Stockly, Galt .....Princeton.
Sundberg, Gustave .....Mexico City.
Tally, Robert E. .....Spokane, Wash.
Taylor, E. S. .....Vancouver.

Under section 2, subsection (1)—Continued.

Taylor, H. L. .....Vancouver.
Teed, A. J. .....Vancouver.
Thirkell, V. R. .....Vancouver.
Thomas, Percival W. .....Vancouver.
Tretheway, John H. .....
Turner, H. A. .....Vancouver.
Vance, John F. C. B. .....Vancouver.
Van Agnew, Frank .....Siberia.
Vaughan-Williams, V. L. ..California.
Wales, Roland T. .....
Watson, Wm. J. .....Ladysmith.
Watson, Thomas .....Vancouver.
Welsh, J. Cuthbert .....Butte, Mont.
Wells, Ben T. .....
West, Geo. G. .....Vancouver.
Whittaker, Delbert E. .....Victoria.
Widdowson, E. Walter ....Nelson.
Willemar, Douglas R. .....New Hazelton.
Williams, W. A. .....Vancouver.
Williams, Eliot H. .....
Williams, J. R. .....Vancouver.
Wimberley, S. H. .....Nevada, U.S.A.
Youngs, T. N. .....Victoria.

Under section 2, subsection (2).

Archer, Allan .....
Baylock, Selwyn G. .....Trail.
Bissett, D. G. .....Trail.
Bolton, George E. .....Silverton.
Brennan, Charles Victor ...Victoria.
Browne, R. J. .....Rossland.
Browne, P. J. .....Nelson.
Bryant, Cecil M. .....
Burwash, N. A. .....
Cavers, Thomas W. .....
Clothier, George A. .....Prince Rupert.
Cole, Arthur A. .....Cobalt, Ont.
Cole, G. E. .....Rossland.
Cole, L. Heber .....Ottawa, Ont.
Conway, E. J. .....Vancouver.
Coulthard, R. W. .....
Cowans, Frederick .....
Dawson, V. E. .....Trail.
Dempster, R. C. .....Rossland.
Dempster, A. S. .....Rossland.
Dixon, Howard A. .....Toronto, Ont.
Eardley-Wilmot, V. L. .....Rossland.
Eldridge, Gardner S. .....Vancouver.
Galbraith, M. T. .....
Gilman, Ellis P. .....Vancouver.
Gray, Stanley .....Trail.
Green, J. T. Raoul .....Blairmore, Alta.
Guess, George A. .....Toronto, Ont.
Gwillim, J. C. .....Kingston, Ont.
Harding, Wilson M. .....
Heal, John H. .....
Hearn, Roy D. .....Trail.
Hilliary, G. M. .....Idaho, U.S.A.
Johnston, William Steele...Lachine, Que.
Kaye, Alexander .....Vancouver.
Kendall, George .....Vancouver.
Kidd, G. L. .....Edmonton, Alta.
Kilbourne, Geo. H. .....Rossland.
Lathe, Frank E. .....Grand Forks.
Lay, Douglas .....Rossland.
Lewis, Francis B. .....South Africa.
Merrit, Charles P. .....
Murphy, C. J. .....St. Catharines, Ont.
Musgrave, W. N. .....England.
McArthur, Reginald E. ....
McDiarmid, S. S. .....
McGinnis, Wm. C. .....Queen Charlotte Ilds.
McKay, Robt. B. .....Vancouver.
McLellan, John .....Queen Charlotte Ilds.
McMurtry, Gordon O. .....
McNab, J. A. .....Thompson, Nevada.
McPhee, W. B. .....
McVicar, John .....Edmonton, Alta.
Maclennan, F. W. .....
Macdonald, J. S. .....Vancouver.
Moran, P. J. .....Vancouver.
Newton, W. E. .....Sandon.
Oliver, Chas. E. .....Vancouver.
Oughtred, S. W. .....Ainsworth.
Outhett, Christopher .....Kamloops.
Pemberton, W. P. D. .....Victoria.
Reid, J. A. .....Cobalt, Ont.
Ritchie, A. B. .....Nelson.
Roaf, J. R. .....
Roscoe, Harold M. .....Anyox.
Rose, J. H. .....Thompson, Nevada.
Rutherford, R. C. .....Trail.
Sampson, E. H. S. .....Riondel.
Scott, John Mitchell .....Stewart.
Scott, Oswald Norman ....
Shannon, S. .....
Sharpe, G. P. .....Midland, Ont.
Shorey, P. M. .....Trail.
Sloan, David .....Three Forks.
Stevens, F. G. .....Mexico.
Stewart, A. G. .....Vancouver.
Stroud, J. E. C. .....Anyox.
Sullivan, Michael H. .....Kellogg, Idaho.
Sutherland, T. Fraser .....
Sutherland, Wm. .....Glasgow, Scotland.
Swinney, Leslie A. E. .....
Thompson, W. K. .....Trail.
Thomson, H. Nellis .....Anaconda, Montana.
Thomson, Robt. W. (deceased)
Watson, A. A. .....
Watson, Henry .....
Willis, F. S. .....Trail.
Winslow, R. H. .....Vancouver.
Wilson, Ridgeway R. .....Victoria.
Workman, Ch. W. .....
Wright, Richard .....Rossland.
Wynne, Llewellyn C. .....
Yuill, H. H. .....

Under section 2, subsection (3).

Carmichael, Herbert .....Victoria.
Galloway, J. D. .....Victoria.
(Resident Engineer.)
Harris, Henry .....Tasmania.
Hedley, Robt. R. .....Vancouver.
Kiddie, Thos. .....California.
Marshall, Dr. T. R. .....London, England.
McKillop, Alexander .....Vancouver.
Pellew, Harvey, Wm. .....London, England.
Robertson, Wm. Fleet .....Victoria.
(Provincial Mineralogist.)

Previously issued under the "Bureau of Mines Act, 1897," section 12.

Pinder, B. .....
Thompson, James B. .....Vancouver.

NORTH-WESTERN DISTRICT (No. 1).

REPORT OF GEO. A. CLOTHIER, RESIDENT ENGINEER.

INTRODUCTORY.

This district comprises the following eight Mining Divisions of the Province: Bella Coola, Skeena, Queen Charlotte, Nass River, Portland Canal, Stikine, Liard, and Atlin. The southern portion of the district, from Seymour inlet to Portland canal, lies west of the Coast Range summit. The northern portion lies east of the Coast Range summit which forms the Alaska-British Columbia boundary-line, and is therefore behind the Alaska strip. There is consequently a great diversity of geological and geographical conditions which are very favourable for prospecting and mining operations. These conditions have been described in preceding reports, but I think their importance justifies a brief review of their more salient features in this report for the information of new readers, at the risk of uninteresting repetition for readers of former reports.

The chief geological features are the three immense belts, running north-west and south-east, into which the district may be divided. Of these, the all-important one is the granite Coast range of mountains, extending the full length of the Province to near the head of Lynn canal, from which point it gradually merges into the Yukon plateau about Kluane lake. The range is from 60 to 100 miles in width, and its intrusion through the sedimentary formation has created exceptionally favourable conditions along its borders for the circulation of ascending, heated, mineral-bearing solutions and the deposition of their mineral loads, comparatively near the surface, under conditions of diminishing temperature and pressure.

For the purpose of this report, the zone along the eastern border of the granite range is called the Eastern Contact Belt and that west of the range the Western Contact Belt.

The only access to the Eastern Contact Belt in this district is from the Coast, and, unfortunately, the major portion of the belt is behind the Alaska strip, which rather complicates matters in the construction of roads and trails. The Coast range is, however, penetrated in several places by rivers and inlets to its eastern border and can therefore be reached in spots—up the Skeena river (Canadian National Railway); up the Nass river as far as Ayansh; to the heads of Observatory inlet and Portland canal; up the Unuk river; up the Taku river; and from Skagway over the White Pass Railway to the Atlin country.

The principal developments so far have been at Anyox and Alice Arm, at the head of Observatory inlet; Stewart, at the head of Portland canal; and Atlin, at the extreme north end of the Province, about 250 miles from Stewart. In these few isolated spots have been developed the *Dolly Varden*, *Granby* mines, *Premier*, and *Engineer* mines. If these partially prospected areas are any criterion, some idea of the immense potentialities of the balance of the belt may be had. It is the future great mineral-producing zone of the Province.

Everything possible should be done by the Government in the way of opening up navigation and building roads and trails, to keep reconnaissance, prospecting, and development well in advance of the producing areas. To this end a mining-trail should be started from Stewart, the farthest north seaport in the Province, and extended over the Bear River divide to the eastern slope of the Coast range. The slope then followed north to a point on the Stikine river, a straight distance of about 125 miles, keeping as close to the contact mineral-belt as is consistent with the building of a good-grade trail that can eventually be converted into a wagon-road. South of the Bear River pass shorter sections of trail could be built to connect accessible spots; as from the Bear River pass to the Kitsault river and Alice Arm, about 35 miles of trail; from Alice Arm by way of the Illiance river to the Nass river, about 20 miles of new trail; and from the Nass River to Terrace, on the Canadian National Railways, repairing of the present trail of about 70 miles. Altogether this would open up another 125 miles along this belt.

East of the Eastern Contact Belt the whole northern end of the Province, comprising an area of over 90,000 square miles in this district alone, is an unexplored empire in itself. The only route into this area is up the Stikine river to Telegraph Creek and from there by trail

to Dease lake, from which point are waterways. All that is known of it is that several millions of dollars were taken out in placer gold in the vicinity of Dease lake forty years ago. It is an ideal field for exploration, with hydroplanes as the means of transportation, on account of the ideal landings provided in the innumerable lakes that dot the whole country. Two weeks' reconnaissance-work from such a point as Hazelton, the most northerly point on the Canadian National Railways, would map the country sufficiently to select routes of travel and stations. A radius of 300 miles would reach any part of the country. Prospecting parties with supplies could be put down at any desired point, and the extent of exploration would only be limited by the number of parties. By this means more of the northern interior country could be prospected in one or two seasons and more information gained than has been to date, or could be in the next twenty years by present methods.

Though developments are proving that the formations of the Eastern Contact Belt are particularly favourable for the occurrence of the economic minerals, the Coast range and the Western Belt, with their unsurpassed transportation facilities, should not be passed up by the prospector and operator. A low-grade ore that would not pay transportation charges from the interior might make a mine on tide-water. The granite-belt is, as yet, the greatest mineral-producer in the district, from the two mines, the *Belmont-Surf Inlet* at Surf inlet and the *Granby* at Anyox.

There has been a notable increase in the amount of prospecting and exploratory work done in this belt in the past two years, and there are several properties that give good reasons to believe that they will, with development, make shippers.

The Western Belt includes all the Coast islands west of the granite and the Queen Charlotte group. This zone is receiving more attention than heretofore, and a number of showings on the smaller, inshore islands, as well as on the Queen Charlottes, are showing up well with the work being done on them by the owners. Should the steel industry amount to anything on the Pacific coast, the big magnetite and magnetite-chalcopyrite deposits in this belt would no doubt come into prominence.

The Summary Report, 1920, Part A, published this year by the Department of Mines of Canada, contains a preliminary report of S. J. Schofield and George Hansen on the geology and ore occurrences of the Salmon River section. This report, together with the geological map, which has later been issued, gives opportune information to the prospector and mining operator. The detail report will be published early in the year. George Hansen this year completed the Geological Survey work in the Kitsault River section, and the publication of his report and map will be sincerely appreciated by those interested in the development of that area.

THE MINING SITUATION.

The general financial and metal market depression during the year has, of course, not slighted the mining industry of the Province, but the effect on this northern portion of the Province has been surprisingly slight. About the only difference to be noted, in so far as mining is concerned, is that there has been probably less capital with which to take hold of new properties, and also that some of the smaller operators have had to suspend operations and relinquish their options. The latter has not in any way reflected against the merit of the property, for in nearly every case the owners have gone ahead with the development of the property themselves.

Last year's important shippers, with the exception of the *Dolly Varden* at Alice Arm, have been continuously operated and have shipped throughout the year. Very fortunately for the mining industry of this North Coast country, the Granby Consolidated Mining, Smelting, and Power Company has been able to maintain production all year. Though it is estimated that it will take about another year, under present industrial conditions, to absorb the excess reserves of copper, it is expected and hoped that such a calamity as the closing of the Granby plant will be averted. The production of the Premier Gold Mining Company, Limited, of Stewart, of over $1,500,000 this year is indicative of the output that is to be expected from that property in the future. At the *Belmont-Surf Inlet* mine, on Princess Royal island, the completion of a tramway from the *Pugsley* mine, where large ore reserves have been developed, to the concentrator will ensure the production of the property for some time to come. The production of the *Dolly Varden* mine at Alice Arm, under operation for the last two years by the Taylor Engineering Company, has been a disappointment this year and has had a somewhat depressing

effect on that mining section. Little or no development has been done and the tonnage shipped was ore that had been broken down the previous year. The policy of capacity extraction to the exclusion of development-work during the high price of silver was probably a commendable one, but apparently no provision was made for financing development-work when the higher-grade ore was exhausted. Litigation over the *Engineer* mine, on Tagish lake, Atlin, has unfortunately not yet reached the highest Court. The *Maid of Erin* property, in the Rainy Hollow section of the Atlin Mining Division, is developing very satisfactorily and has every appearance of becoming an important shipper of high-grade copper ore as soon as hauling facilities from the mine to tide-water at Haines are provided. There are several other properties throughout the district that are gradually being developed beyond the prospect stage and give reason to believe that they will make shippers. The placers of Atlin, Stikine, and Liard Mining Divisions have made about the same production as last year. Though Ruby and Otter creeks, in the Atlin country, did exceptionally well this year, it is not expected that the present output will ever be very greatly exceeded unless new diggings are struck. In the Liard Division the Dease Lake diggings produced only about $5,000 all told, but with better conditions in sight for next season a greater clean-up is looked for.

A great deal of prospecting has been done in all sections of the district, with results that are surprising the old-timers themselves. It looks, in fact, as if the older mining sections were just beginning to be seriously prospected, with results proportionate to the thoroughness of the work. If some provision to the "Mineral Act" could be devised, eliminating the "claim hog," who is always a "restaker," because it is impossible for him to perform the legal assessments on his many claims, it would compel a great deal more assessment-work, which is the one vital necessity to a mining district; prove a great incentive to the prospector in every way; and remove a very serious handicap to mining progress.

There has been an epidemic of oil-land staking (no rock formation barred) and about 350 locations have been made, principally in the Kitsumgallum and Lakelse valleys, Nass River valley, and Queen Charlotte islands. It is hoped that some one will have the courage of his convictions and do some serious prospecting in the shape of drilling.

A very appreciable amount of assistance was granted by the Department of Mines, under the "Mines Development Act," to prospectors and operators throughout the district for trail-work. In several cases, where widespread damage was done by floods, this assistance was very opportune.

Summarizing the mining situation from a development standpoint, there is an apparent feeling of optimism in all parts of the district, from the prospector up to the producer, and with the brighter outlook of general industrial conditions and consequently more money for mining undertakings, together with reduced costs of labour and supplies, I look for an appreciable increase in exploratory and development work throughout the district the coming year.

The following is a list of the shipping properties in District No. 1 and their outputs for 1921:—

PRODUCTION FOR 1921 FROM DISTRICT NO. 1.

Name of Property.	Location.	Ore mined.	Gold.	Silver.	Copper.
		Tons.	Oz.	Oz.	Lb.
Maid of Erin		55	3	1,808	25,664
Granby Consolidated Mining, Smelting, and Power Co., Ltd.	Anyox	896,802	7,652	314,204	34,067,185
Golskeish Mines, Ltd.	Anyox	9,203	943	3,518	.....
Taylor Engineering Co., Ltd. (Dolly Varden)	Alice arm	1,874	.....	45,648	.....
Premier Gold Mining Co., Ltd.	Stewart	18,750	40,104	1,177,978	.....
Drum Lummon Mines, Ltd.	Drum Lummon bay	4	7	75	4,286
Belmont-Surf Inlet Mines, Ltd	Surf inlet	134,570	36,476	20,706	744,632
North Star		85	.....	1,870	.....
Totals for 1921 (exclusive of placer)		1,061,343	85,185	1,565,807	34,841,767
Totals for 1920 (exclusive of placer)		979,993	56,246	1,375,726	26,153,403
Increase		81,350	28,939	190,081	8,688,364
Decrease		.....	.....	.....	.....

The above list, showing the mineral production of the district for the past year, proves the mining industry to be in a very satisfactory and healthy condition. Not only has the tonnage

mined and the quantity yield of gold, silver, and copper exceeded that of last year, but they have the additional distinction of being the greatest of any year in the history of the Cassiar District. The tonnage mined has gone over the 1,000,000-ton mark and shows an increase of about 9 per cent. over last year. Gold has made the sensational gain of about 60 per cent., amounting to approximately $633,500 over the output of 1920. Silver shows a slight increase in ounces of output, but depreciated $385,000 in value, due to the drop in the average yearly price of 100.9 cents an ounce for 1920 to 62.65 cents an ounce for 1921. Copper also made an increase of nearly 9,000,000 lb., or about 34 per cent. greater than last year, but decreased $208,000 in value on account of the average yearly price dropping from 17.46 cents for 1920 to 12.5 cents a pound for 1921. The gain of $633,500 in gold, however, offsets the depreciation in silver and copper, totalling $593,000, leaving a gain in values of about $40,500 over the output of 1920.

The great increase in gold is due to the wonderful production of the Premier Gold Mining Company, of Stewart, amounting to 40,104 oz., against 2,283 oz. last year. The Belmont-Surf Inlet Mines, Limited, show 36,476 oz., a decrease of about 7,500 oz. from the previous year. Granby fell off a little in gold on account of the quartz mined for flux carrying no values. Last year the gold from this source was 1,715 oz.

It will be noted that the total silver-output was over 1,500,000 oz., of which the Premier Gold Mining Company alone produced over 1,000,000 oz. In 1920 the *Dolly Varden*, of Alice Arm, was the star silver-producer of over 831,000 oz., which apparently was insufficient to maintain operations. *Belmont-Surf Inlet* just about equalled last year's silver yield.

Copper has had a very material increase over last year, due solely to the increased production of nearly 9,000,000 lb. by the Granby Consolidated at Anyox. The *Belmont-Surf Inlet* shows a small increase in copper. The Maid of Erin Silver Mining Company, operating the *Maid of Erin* mine in Rainy Hollow, was able to get out 55 tons of ore before the winter set in. The ore averages about 25 per cent. copper.

Altogether, the district produced 67 per cent. of the total tonnage mined in the Province, yielding 62 per cent. of the total gold, 58 per cent. of the total silver, and 89 per cent. of the total copper, and is the only district in which the value production equals that of last year.

This record, notwithstanding the general industrial depression, is a strong comment on the soundness of the growth of the mining industry in the north-western part of the Province. Previously in this report the mining situation was sized up from the standpoint of prospecting and development, and now, judging it from the standpoint of production, one's predictions must be optimistic.

The Granby Company may be expected to maintain its average yearly output. The Premier Gold Mining Company, with its concentrator and tramway completed and in operation, and its known ore-bodies hardly touched as yet, will no doubt greatly increase its output in the next year or two. The *Belmont-Surf Inlet*, with new tramway facilities for handling the *Pugsley* mine ore to the concentrator, and the opening-up of the ore-bodies on the 1,000-foot level of the old mine, is in a position to maintain its present output and probably increase it next year. As stated before, the *Maid of Erin* mine is developing very satisfactorily and looks very much like an important producer of high-grade copper ore when transportation is provided.

The *Dolly Varden* will in all likelihood be put on a producing basis again. The *Engineer* mine in Atlin, if it ever gets through all the Courts and free of litigation, should develop into an important gold-producer very quickly. The *Silverado* property at Stewart is now mining from a small high-grade vein and there are other large veins on the property that give it great possibilities.

Besides the above shipping mines, there are a number of smaller properties throughout the district, in the Kitsumgallum Lake section, and in the Alice Arm and Stewart districts that are expected to be producing in a small way within the next year.

The district will be reviewed under the main headings of the Mining Divisions, subdivided into sections as follows:—

Queen Charlotte Mining Division—Graham Island section; Moresby Island section.

Bella Coola Mining Division.

Skeena Mining Division—Coast section; Canadian National Railway section; Kitsumgallum Valley section; Lakelse Valley (Thornhill Mountain) section.

Nass River Mining Division—Observatory Inlet section; Hastings Arm section; Alice Arm (proper) section; Kitsault River section; Illiance River section.
Portland Canal Mining Division—Portland Canal (proper) section; Marmot River section; Bear River section; Meziadin Lake section; Salmon River section; Unuk River section.
Stikine Mining Division—Stikine River section; Iskut River section.
Liard Mining Division—Dease Lake section.
Atlin Mining Division—Rainy Hollow section; Atlin Lake section.

QUEEN CHARLOTTE MINING DIVISION.

The mining situation on the islands has not changed very materially since last year's report. About the only work being done is by the owners on their own holdings.

Graham Island Section.

In the early part of the summer it looked as if something were going to be done toward developing the oil-shale industry on the western slope of this island. A large area of ground had been acquired and considerable prospecting and exploratory work done in defining the oil-shale belt and obtaining a fairly accurate estimate of the probable tonnage, which was said to be entirely satisfactory. Many field tests were made of the shale and large samples procured and shipped for exhaustive experiments. It was reported by Nick Clark, one of the principals in the undertaking, that the shales from the surface averaged about 10 gallons to the ton and that the oil content improved as more depth was attained, and also that a satisfactory process for the extraction and refining of the oil on the ground had been worked out. Shales with anything over 25 gallons to the ton could be worked at a profit, and to this end successful experiments had been made along the lines of concentration of the shales before retorting for the elimination of the less oil-saturated particles of silica. This concentration was about 4 or 5 into 1 and the concentrated shale ran well over 30 gallons to the ton.

Analyses of the shale-oil were given as: Gasolene, 15 per cent.; kerosene, 14 per cent.; gas oil or distillate, 18 per cent.; light lubricating-oil, 17 per cent.; heavy lubricating-oil, 28 per cent.; residue, 8 per cent.

Their holdings have been kept in good standing, but nothing further has been done in connection with the shales. The principals have probably gone to the Mackenzie basin.

The black, gold-bearing beach sands on the north and east coasts of Graham Island is another hardy annual. A number of leases have been taken up for next spring's operations.

South Easter Group.—(*See* report of 1918, page 37.) Nothing of any note has been done on the property this year.

Moresby Island Section.

The west coast of Moresby, around Gold and Kootenay harbours, has had considerable prospecting during the past year or two and a number of small free-gold quartz veins characteristic of that area have been found.

Early Bird Group. The reader is referred to the 1918 report, page 41, for a description of this property. It is owned by J. G. McLellan, of Queen Charlotte City, and situated on Gold harbour. Nothing has been done by the owner on the property for some years, but I understand that it is now under lease to Davey & Pearsen, who are getting fair returns for their work.

Blue Mule Group. This group was reported on last year, 1920, since which time the owners, Jones, Wiggs & McRae, have done further work and, I am informed, have opened up some very promising showings of free-gold ore. I regret that I have been unable to get to the property this year. It is reported that one of the owners, J. H. Jones, and Nels Larsen have taken a lease on the property for three years and are now engaged in development-work.

Homestake Group. This is an old property on the north side of Cumshewa inlet, on which considerable work was done several years ago, and from which some small shipments of rich, very closely hand-sorted ore was shipped. It was reported on in 1913 Minister of Mines' Report by D. G. Forbes, who says in part that there are two ledges, a north and south one, lying in a shattered zone of slate, between slate and siliceous limestone formations. The gangue is quartz and calcite and the mineralization pyrite, zinc-

blende, and a little galena. A drift was run on the north vein for 239 feet and on the south vein for 435 feet, with crosscuts, winzes, etc., totalling over 2,000 feet of work. The general tenure of the ore is low except where galena is found, when the values go up as high as $100 to the ton in gold. It is reported that this property will resume operations at an early date.

Iron Duke Group. This group is situated on Louise island and is a very promising-looking magnetite-iron property, judging from surface indications. The claims have been surveyed this summer and applications made for certificates of improvements for Crown grants. The reader is referred to the Minister of Mines' Report, 1918, for more detailed information.

Swede Group. This group of eight claims, owned by Rogers, Pearsen & Larsen, lies just to the left of the entrance to Lockeport harbour, on the east coast of Moresby island. The claims contain an immense deposit of low-grade copper ore consisting of chalcopyrite and bornite, disseminated and in small bunches and veinlets throughout a diabase country-rock. Two tunnels have been driven, one 170 feet and another, farther north, 80 feet. They both show disseminated chalcopyrite, but the latter has also a small percentage of bornite scattered through it. The bornite carries a little platinum in the best of it, a sample assaying 3.1 per cent. copper, showing 0.01 oz. platinum and a trace of palladium, 20 cents in gold, and 1 oz. silver to the ton. The owners are only keeping up assessment requirements. The property is ideally located for working on any scale.

Ellen Group. This group is situated on Shuttle island, about 7 miles south of Lockeport. There are four claims in the group—*Ellen*, *Georgia Mac.*, *Bald Eagle Frac.*, and *Aeroplane*—owned by Edwards and partner. The group was bonded early in the year to Archie McVittie, of Victoria, who was to have installed a small mill of the Ross type. However, nothing much seems to have been done.

The owners had been working pretty steadily on the property and did considerable work, mainly on the *Ellen* claim. It consists of a crosscut tunnel 100 feet long, following a small quartz stringer to its junction with the main quartz vein, gaining a depth of 25 or 30 feet in that distance. The main vein was then drifted on for 25 feet and a shaft sunk to a depth of 26 feet at the intersection of the veins. This work discloses a brecciated quartz-slate vein-filling, averaging about a foot in width, in a slaty country-rock. Free gold occurs in the vein, some in the quartz, but mainly around and in the inclusions of country-rock. Some fine specimens have been obtained, but the values are very spotted and the general average, I judge, would be low.

Tickscy Placer Claim.—This claim, on the beach on Shuttle island, is being worked by the three owners. They are installing a small pumping plant to supply a head of water for sluicing. The extent of gravel is pretty small to be of great importance.

Copper Island.—The owner of the claims on this island, just outside Jedway harbour, Mr. Heino, has been working on these and his iron claims on Burnaby island all summer. I regret that I have been unable to get over this fall and also that I have no information as to the outcome of his season's work.

Burnaby Island.—Campbell & Wildes have done some work on their claims, the *Bank of Commerce* and *Mother Lode*, with, it is reported, very good results.

Ikeda Mines, Ltd.—Operations have not been resumed since closing down last year.

Thunder Group.—This group is owned by Ike Thompson, of Jedway, and situated on Collison bay. It was optioned this spring to Seattle interests, but as yet nothing has been done on the property.

BELLA COOLA MINING DIVISION.

I have been unable, owing to lack of time, to get over this Division this year and consequently can only report from office statistics that the yearly assessments have been kept up. Last year gave some hope that an iron ore (magnetite) industry might be developed, but none has been mined or shipped this year.

SKEENA MINING DIVISION.

This Division takes in about 200 miles in length of the Coast range; the coast-line and islands to the mouth of Portland inlet; and also includes a small portion of the Eastern Contact Belt, from Lakelse lake north to the southern boundary of the Nass River Mining Division.

The Coast granites are made easily accessible by hundreds of miles of canals and inlets, notably Douglas channel, Gardner canal, and Kitimat arm. The interior is reached by the

Canadian National Railway, from which access is had to the Lakelse and Kitsumgallum valleys from Terrace. A great deal of prospecting has been done along the Coast and on the islands, and the Kitsumgallum Valley section has been quite active, especially in the vicinity of Kitsumgallum lake. The latter does not refer to the oil-land staking, but to mining. There is at present only one shipping property in this Division, the *Belmont-Surf Inlet* on Princess Royal island.

Coast Section.

This includes all the Coast islands and any part of the Mainland on tide-water, and is one of the least expensive and most accessible portions of the Province for prospecting.

Belmont-Surf Inlet Mines, Ltd.

The mining property of this company is situated at the head of Surf inlet, on the west coast of Princess Royal island. The company, which is subsidiary to the Tonopah-Belmont Development Company, has been shipping from this property since 1917. During that time up to the end of 1921 about 500,000 tons of ore has been mined and milled, yielding approximately 175,000 oz. gold, 100,000 oz. silver, and 2,700,000 lb. copper.

This year has been the biggest yet in point of tonnage mined and milled, amounting to about 135,000 tons, or an average of nearly 400 tons a day treated in the concentrator. This tonnage of mine-run ore produced 11,483 tons of flotation concentrates shipped to Tacoma and yielding 36,476 oz. gold, 20,706 oz. silver, and 744,632 lb. copper, a small increase in silver and copper over last year, but a decrease of about 8,000 oz. gold.

The year's work consisted mainly of stoping from the upper levels, the sinking of a winze from the 900-foot to the 1,000-foot level, and driving laterals on the lower level. The total footage of drifting and crosscutting for the year was about 5,000 feet and the winze and raises about 2,600 feet. The number of men employed would average about 200 throughout the year.

The main working-shaft from the 550-foot level, the main haulage level of the mine, will now be sunk from the 900-foot to the 1,000-foot level and in all probability will be continued another level. The vein and ore on the lowest level are reported as being very satisfactory.

A 2-bucket, high-speed, reversible tram has been installed this summer from the lower tunnel of the *Pugsley* mine, owned by the company, to the crusher-bin at the mine, from which the ore is carried by travelling-belt to the concentrator. The tram is a single span of 2,300 feet, of 1⅜-inch smooth-coil track-cable and ½-inch traction-cable operated by a 25-horse-power motor geared to an 8-foot bull-wheel. Its capacity is about 12 tons an hour and hoists to an elevation of about 400 feet above the lower terminal. The tram was put in operation about the middle of September.

At the *Pugsley* mine a raise has been put through from the lower to the upper tunnel, a distance of 245 feet, and several stopes are now being opened up on the lower levels preparatory to supplying ore to the concentrator.

F. H. Penn, former mill superintendent, is now general superintendent at the mine, succeeding F. W. Holler, resigned. E. W. Hawkins is auditor and Cliff Seale, mine superintendent.

Cordila Group.

This group consisting of six claims—*Mountain View*, *Royal*, *Landslide*, *Bight*, *Counder*, and *Present*—staked in July, 1920, by Corila & Koski, is situated on the north end of Princess Royal island just back of Rivers bight. A working bond was taken on the property this fall and work started by the Rivers Bight Syndicate. I did not have an opportunity of seeing the property this fall, but it is reported that the work is progressing well and the showing much the same as the *Surf Inlet* mine.

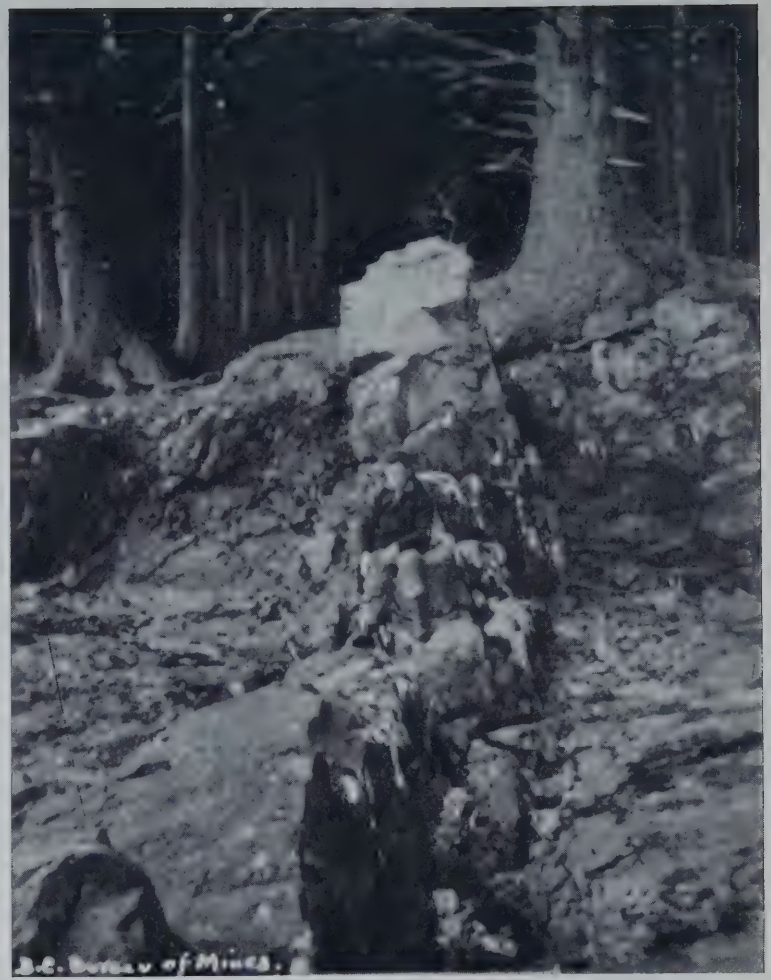
Payroll Group.

This group consists of two claims on Kiltuish or Long inlet, owned by Jas. Hickey and partner, of Prince Rupert. Assessment-work was done on the claims this summer by the owners, who report the vein to be exposed for a width of 20 feet. It is quartz in a country-rock of hornblende-schist, mineralized with pyrrhotite and a little chalcopyrite scattered through it. Gold values are spotted, varying from a trace to $14 to the ton. The showing is right on the beach and the ore could therefore be mined and shipped at minimum cost.

Stewart Group.

This group is situated on the Kemano river, about 6 miles up from Gardner canal. The property has hitherto been rather inaccessible, except at certain stages of the water in the river, when poling and lining could be used. A trail was cut this summer from the mouth of the river up the west side to a point opposite the creek up which the claims lie. The showings have been described as a mineralized dyke 200 feet

Alder Island—Open-cut on Gatt's Claim.



Alder Island—Dyke on Gatt's Claim.

wide lying in the granodiorite of the Coast range. Gold, silver, and copper values are found throughout the dyke, but there are small veins of ore in places of better grade.

The property is owned by M. M. Stephens and Captain Babbington, of Prince Rupert. Mr. Stephens brought in some samples this fall from the property of very promising-looking quartz mineralized with bornite and chalcopyrite and carrying gold and silver values.

Douglas Channel Mines.

(Formerly Drum Lummon Mines, Limited (Non-personal Liability).) This company was incorporated in June of this year, with a capitalization of $3,000,000, divided into 3,000,000 shares, with its head office in the Credit Foncier Building., Vancouver. The old company, the Drum Lummon Mines, Limited, deeded thirteen Crown-granted mineral claims, including the *Drum Lummon* mine, to the new company, retaining two mineral claims and obtaining a considerable portion of the stock of the new company. The old name was changed to the Douglas Channel Mines.

The new company's holdings are being developed by contract with the Glenville A. Collins, Engineers, Limited, of Vancouver. Under this new management a great deal of work has been done this summer, including the dismantling of the old mill, the erection of a larger camp and a snow-shed at the mouth of the tunnel, moving of the compressor to housing at the mouth of the tunnel, and the sinking of a winze on the vein on an angle of 45° to a depth of 100 feet. This winze-sinking is now being pushed as rapidly as possible, and when the desired depth is attained another level will be driven to the west on the vein. It is also intended to continue the present level another 100 feet on the vein and complete the raise through from this level to the surface for ventilation.

A favourable smelting rate has been procured from Granby Consolidated and it is contemplated shipping the siliceous mine-run ore to the Anyox plant. About 5 tons of ore was shipped to Granby this summer, assaying 50.6 per cent. copper, 17.7 oz. silver, and 1.67 oz. gold to the ton.

Mr. Collins, manager, informs me that the work is progressing satisfactorily and that, everything considered, the property is looking very promising.

Canadian National Railways Section.

This section includes all the country contiguous to the railroad, from Prince Rupert to Terrace, a distance of 95 miles, and is practically all in the granite Coast range. There has been little real prospecting done along the railroad, though in the early boat-days up the Skeena river many claims were staked along the river. Little or no prospecting has been done away from the railroad or river, but a little more interest is being taken each year.

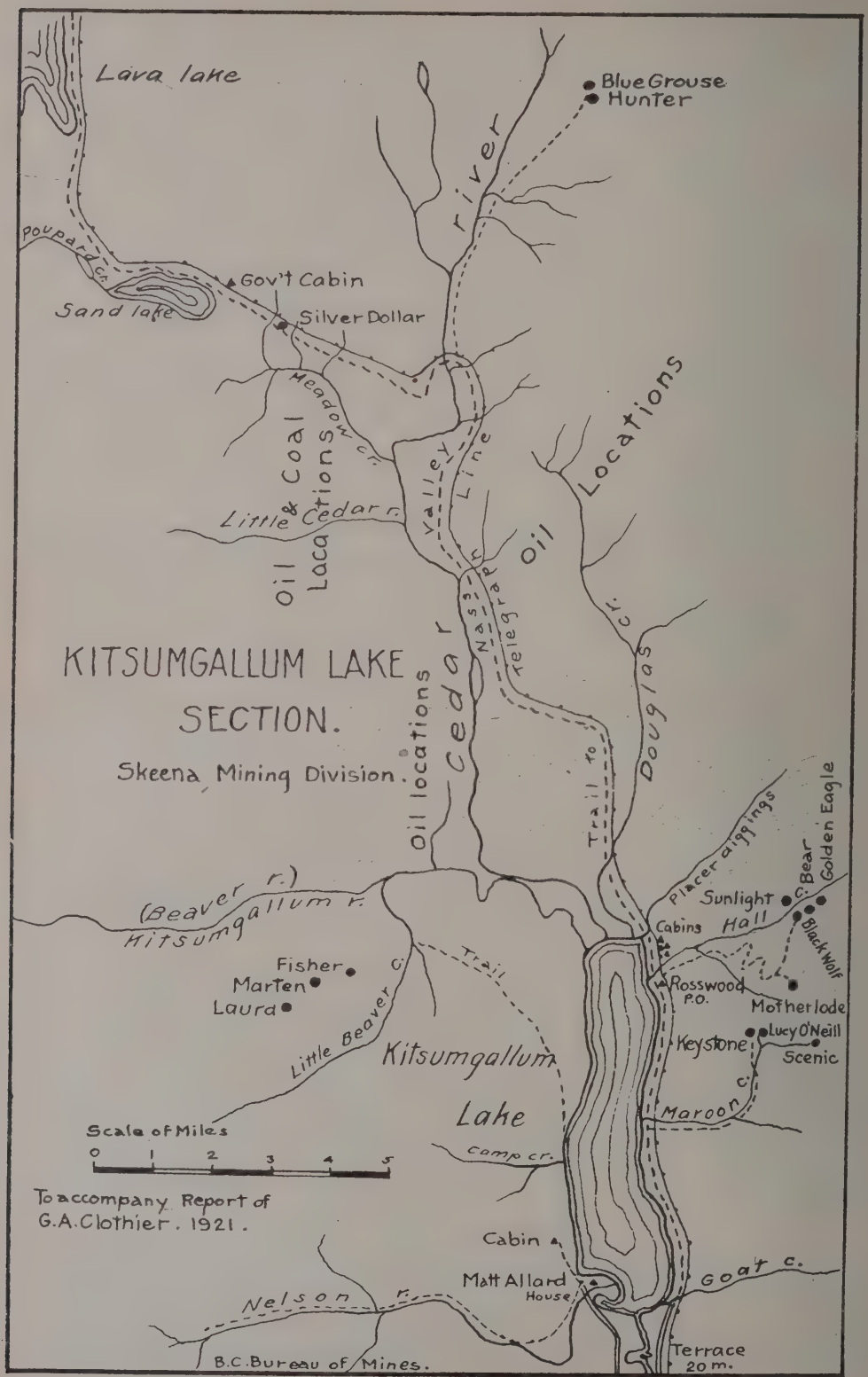
Graphite Group.

This is a group of claims lying on the south side of the Skeena river, about opposite the station of Salvus, 60 miles from Prince Rupert. They were staked and are owned by Doc Stanwood and Phil Chesley. I was over the ground this fall and found that owing to the heavy overburden and the consequent few exposures of the rock formations, it was extremely difficult to "size it up" and arrive at any conclusions as to the possibilities of the property.

Graphite is found in a belt of more or less metamorphosed granite, probably 1,000 feet in width and several miles long. There seems to have been a profound movement in this belt or zone, splitting it up in all directions and forming bands, of considerable widths, of gneissoid granite. Along the seams in the granite and in the gneiss bands there has been considerable alteration and decomposition of the granite. The graphite occurs in minute flakes mainly along the fracture-faces, but possibly disseminated throughout the altered granite. It would require a thorough examination of the property and probably extensive exploratory work to determine whether the graphite content is sufficient for commercial ore. The owners claim an assay of 3 per cent. graphite across a width of 400 feet about the centre of the zone, and also to have obtained gold values of $1.75 to the ton from different places.

Kitsumgallum Valley Section.

There was considerable activity in this section this year, both in prospecting and development-work. Two or three parties were prospecting on Maroon mountain and others at the head of Douglas creek. A party of four also made a three-weeks' trip up the Beaver river from the head of Kitsumgallum lake. They report that the South fork of Beaver is all in granite, but that there is a good-looking country for prospecting all along the North fork.


Lava lake
Blue Grouse
Hunter
river
Poupard Cr.
Gov't Cabin
Sand lake
Silver Dollar
Meadow Cr.
Oil & Coal Locations
Little Cedar r.
Valley Line
Oil Locations
KITSUMGALLUM LAKE SECTION.
Skeena Mining Division.
Oil locations
Cedar
Telegraph
Trail to
Douglas Cr.
Placer diggings
Bear
Golden Eagle
Sunlight
Cabins
Hall
Black Wolf
(Beaver r.)
Kitsumgallum r.
Fisher
Marten
Laura
Trail
Little Beaver Cr.
Rosswood P.O.
Mother lode
Lucy O'Neill
Keystone
Scenic
Maroon Cr.
Kitsumgallum Lake
Comp Cr.
Scale of Miles
0 1 2 3 4 5
To accompany Report of G.A. Clothier. 1921.
Cabin
Matt Allard House
Goat C.
Nelson r.
Terrace 20 m.
B.C. Bureau of Mines.

This section lies along the Eastern Contact Belt and is a worth-while accessible country to prospect, from Terrace to the Nass River, a distance of about 70 miles. This summer I walked through on the Telegraph trail and took a pack-horse from the head of the lake to Ayaush, on the Nass river, about 40 miles, and found the trail badly in need of repairs, rebuilding, and clearing out for several stretches. No time could be taken for any reconnaissance off the trail. The rock formation is, apparently, predominantly metamorphosed sedimentaries, with numerous granite dykes and spurs and other igneous intrusions. I should judge it a very favourable belt for mineralization.

Recommendations have been made to the Geological Survey of Canada for as detailed reconnaissance as possible of the area around Kitsumgallum lake and through to the Nass river.

A considerable area north of the lake has been covered with oil locations by the Kitsumgallum Basin Petroleum Company, Limited, with its head office at Terrace. From the south end of the lake to Terrace and the Lakelse valley has been blanketed by other parties for a distance of 20 miles. The prospectus of the Petroleum Company and the statements of those interested in the other locations leave nothing to be doubted as to the existence of oil in commercial quantities, but drilling would be a good idea. The proximity to the Coast Range granites is probably not a promising feature.

Motherlode Group.

There are three claims in this group—the *Motherlode*, *New York*, and *B.C.*—owned by Oscar Gendron, Jack Couture, Oscar Olander, and Paul Brodine, of Terrace. The claims are situated at the head of the South fork of Falls creek, about 5 miles by trail from the head of Kitsumgallum lake. There is a good horse-trail built by the owners through to the *Bear* group, a branch trail from it going to the *Motherlode* cabin, which is at an elevation of 5,200 feet.

The owners claim that there is a mineralization above the bluffs cropping for a width of from 30 to 50 feet, and this is evidenced by the quantity of float found in the slide at the foot of the bluff. They started a tunnel at 5,600 feet elevation last year and drove it 30 feet, cutting a little ore at the mouth of the tunnel. The balance of the tunnel is in an andesitic dyke, which intrudes and is interbedded with the altered sedimentaries, which is the predominating country-rock. This tunnel was abandoned and another started 200 feet vertically lower, with the idea of cutting the ore which shows in the mouth of the tunnel above. This lower tunnel had at the time of my examination (August 14th) been driven 15 feet into the slide-rock, which, fortunately, is cemented with ice and good driving. Since there is plenty of ore float above the upper tunnel, I advised the continuation of that tunnel through the andesitic dyke. I have no information as to later development.

The float found is a schistose rock in which are bands of quartz mineralized with zinc-blende, galena, chalcopyrite, a little grey-copper, and an occasional flake of native silver. I think there is a good chance of opening up a body of milling-grade ore.

Black Wolf and Golden Eagle.

These groups of two claims each were located this spring by the owners of the *Motherlode* group on the extension of the *Bear* vein. The *Black Wolf* is on the south and the *Golden Eagle* on the north end of the *Bear* group. The vein has been traced on the surface through both groups, the northerly extension striking across the head of Falls creek into Goat mountain. The vein is small, from 8 to 12 inches wide, and lies in a schistose country-rock, conforming with its strike and dip. It consists of quartz more or less mineralized with galena, zinc-blende, and pyrite, but in places is composed entirely of sulphides. Gold can be panned anywhere along the vein, the decomposed and honeycombed quartz being especially rich. A sample of about 10 lb. was taken from different parts of the vein, of average vein material, ground up in a mortar and panned. The concentrates after amalgamation assayed $192 in gold and 12.2 oz. in silver to the ton and 22 per cent. lead. The tailings assayed $6 in gold, 2.6 oz. silver, 4 per cent. lead, and 70 per cent. insoluble.

Seattle interests, represented by Mr. Hore, have taken a lease and bond on these two groups and, I understand, expect to have a small mill in operation early next spring.

Bear Group.

This group is situated at the head of the North fork of Falls creek and north of the *Motherlode* group. There are four claims in the group—*Bear*, *Hawk*, *Whistler*, and *Goat*—owned by Matt Allard, of Terrace, and associates. There is a good pack-horse trail from the head of the lake to the workings.

The prevailing country-rock is a schistose slaty rock, striking N. 10° E. (mag.) and dipping easterly. The work has all been done on the *Bear* claim and consists of a number of open-cuts and trenches, exposing for a length of 700 to 800 feet a bedded quartz vein, up to 4 feet in width, mineralized with galena, zinc-blende, and pyrites. A shaft has been sunk 12 feet from the bottom of an open-cut, showing a face up and down on the vein of 20 feet, exposing about a foot of solid ore, mainly galena. Free gold can be panned all along the vein. A sample of a small seam of honeycombed quartz assayed 111.2 oz. gold to the ton. This little vein is very consistent through three groups of claims.

Mr. Hore, representing Seattle interests, has taken a lease and bond on this property in connection with the *Black Wolf* and *Golden Eagle* groups, which lie on either side of the *Bear* group. He intends putting a small mill on Falls creek as early as possible next spring (1922) as an experiment.

Lucy O'Neill. This claim is owned by George Little, of Terrace, and associates. It is situated about 8 miles up Maroon creek, which empties into the east side of Kitsumgallum lake about 3 miles from the head. The owners, with assistance from the Department of Mines, have built a good trail from the lake up Maroon creek to within a mile of the camp and have put a good cabin at an elevation of 2,225 feet, or about 1,800 feet above the lake. The trail could be improved into a pack-horse trail with very little additional expense, but to be of use as such the trail from the foot of the lake to Maroon creek would have to be repaired into a pack-horse trail as well. A pack-horse could then be taken through from Terrace to the head of Maroon creek, where there is a good-looking mineral area.

The work done on the claim consists of a shaft sunk 15 feet on a quartz vein lying in massive granite formation, probably a spur from the granite-mass which shows around the foot of the lake. The fissure-filling shows 18 inches of altered and slightly mineralized granite on the footwall; then 3 feet of heavily pyritized quartz carrying a fair percentage of chalcopyrite; then 2 feet of diorite dyke; and about a foot of mineralized quartz on the hanging-wall. The vein strikes N. 70° E. (mag.) and dips 60° to the north-west. No work has been done on the surface toward tracing or opening up the vein. The owners claim to have had assays up to $30 to the ton in gold, silver, and copper values. The ore would have a concentrating ratio of 6 or 8 into 1 and should make a good shipping product. The vein is well defined, well mineralized, and worth considerable exploratory-work.

Keystone.—This claim is owned by J. E. Garland, of Terrace, and adjoins the *Lucy O'Neill* claim on the west. The owner was starting an open-cut across the creek from the *Lucy O'Neill* shaft on the same vein.

Scenic.—This claim, also owned by J. E. Garland, is situated about 2 miles farther up the North fork of Maroon creek. I did not get up to this, but the owner informed me that he had discovered a 10-foot vein of quartz in diorite country-rock that resembles the vein and mineralization on the *Lucy O'Neill* and *Keystone* claims.

Fisher.—This claim has been held by Matt Allard for several years and this year he sold it to Mr. Hore of Seattle, who has working agreements on three other groups as well. The *Fisher* claim is situated about 5 miles from the lake, up the Little Beaver river, a tributary of the Kitsumgallum river. Mr. Hore took in a small mill of the Ross type, I believe, and got it on the ground, but did not get it installed. Work will be resumed in the spring.

The *Marten* group is owned by W. Treston and partner and is also on the Little Beaver river.

With assistance from the Department of Mines, a trail was cut from the lake to the canyon on the Little Beaver river, a distance of about 4 miles. This will enable prospectors to get to their claims in that vicinity, and should be continued up the Beaver river to open up that section, which is claimed to be a very likely one.

Silver Dollar Group. This group consists of two claims—the *Silver Dollar*, owned by Oscar Gendron and J. Couture, and *Silver Coin*, owned by J. Belway and the Estate of A. McLaren. The claims are situated on the Telegraph trail, about 3 miles west of Cedar River Crossing. This was formerly the *Iona* group of four claims, described by W. M. Brewer in the Minister of Mines' Report, 1914, page 109. Considerable work had been done by the former owner, mainly two long open-cuts along the vein and a crosscut tunnel about 40 feet long, driven to pick up the vein under the east open-cut. This shows the vein at that level to be from 12 to 15 feet wide, of a broken-up, brecciated quartz

and slate country-rock, very slightly mineralized with pyrites and an occasional speck of galena. The open-cut above the tunnel shows about the same.

Recent work has apparently been done on the west open-cut for this has opened up the vein along the foot-wall for a length of 30 feet. Two or three small lenses of high-grade ore, consisting of steel galena, some antimony, grey-copper, and a little zinc, carrying silver values up to 250 or 300 oz. to the ton, are exposed in this length. These lenses are too small and uncertain to be of much importance. There is about a ton of sorted ore on the dump.

Assessments were done on the *Blue Grouse* and *Hunter* groups, about 5 miles up the Cedar river from the crossing, by the owners, Oscar Olander and O. Wickstrom. Several individual claims were also represented. There is a good foot-trail from the crossing up the east side of Cedar river, built by Olander with aid from the Department of Mines.

Lakelse Valley (Thornhill Mountain) Section.

I did not get over this section this year owing to lack of time. However, it was reported on in 1918.

Lucky Seven Group.—This group of claims belongs to the Estate of Andrew Olson. They were bonded this spring to J. Ronan, who did considerable work on the small gold vein on the *Diamond* claim, where Olson and partner took out some small pockets of free gold. Development-work, however, did not justify taking over the property.

The *Iron Hat* claim was included in the above bond. The tunnel was driven ahead on the vein about 20 feet, which did not improve sufficiently to warrant further work.

Yearly assessments were done on the two principal groups on Thornhill mountain—the *Ptarmigan* group, owned by Michaud Bros., of Terrace, and *Society Girl* group, owned by Dan Mason and Walter Bell, of Terrace. The Department of Mines assisted the owners of claims on Thornhill mountain in repairing the trail this year.

NASS RIVER MINING DIVISION.

The mining centres of this Division are Anyox, where the Government Recording Office is located, and Alice Arm, which is the distributing-point for the Kitsault River valley and all its tributaries, the Illiance river, Alice arm proper, and its tributaries. They are served by the Grand Trunk Pacific and Union Steamship boats from Prince Rupert and Vancouver, each running once a week. A weekly mail-boat runs from Mill Bay, at the mouth of the Nass river, to Ayansh up the river. From Alice Arm the Dolly Varden Railway extends up the valley 18 miles to the *Dolly Varden* mine. From there is a good pack-trail to the Kitsault glacier, with branch trails extending up the main tributary streams.

There is also a first-class pack-trail up the Illiance river to its head, a distance of about 16 miles. From Ayansh there are trails up the river and throughout the valley, one across to the Illiance river and another south to the Kitsumgallum valley. The Division is therefore fairly accessible in all directions.

Very little prospecting has been done south of the Illiance river or north of the head of the Kitsault river, and as this portion of the Division is along the Eastern Contact Belt there should be good opportunities for the prospector.

This year the Division has had the most encouraging feature of the mining industry, in the continuous operation of the Granby plant, as well as one of the most discouraging, in the inactivity of the *Dolly Varden*.

Though there was more actual development being done in the Alice Arm district than elsewhere, the fact that the *Dolly Varden* was not shipping had a rather depressing effect on that community.

A good trail was built up the Illiance river and improvements made on the trail from the head of Hastings arm. A new wagon-road was constructed by the Provincial Government from the wharf-site to the town of Alice Arm, and the new wharf is now under construction by the Federal Government.

The Geological Survey of Canada carried out a survey of the upper Kitsault valley with a party under George Hanson, whose report and maps will likely be published early in the coming year. It is hoped that the services of Mr. Hanson can be obtained for next year for the extension of his work as a reconnaissance up the Illiance river, across to the Nass, and through to the Kitsumgallum Lake section, thus covering that portion of the Eastern Contact Belt mentioned above.

Granby C.M.S. & P. Co.*

The Granby Consolidated Mining, Smelting, and Power Company, Limited, has, fortunately, been able to operate its entire plant, with the exception of the "pilot" mill, continuously throughout the year, and from a quantity-production standpoint has had its most successful year since the smelter was "blown in" in March, 1914. During that time the company has produced from its *Hidden Creek* mines at Anyox approximately 200,000,000 lb. of copper. In order to maintain operations this year three separate wage reductions were made, on each of which a secret ballot was taken, resulting in a large majority in favour of continuance of work under a new lower wage scale rather than a probable shut-down with no work at all. The first of these reductions was at the first of the year, the second in April, and the last on September 1st, at which time a reduction of about one-third was made in the number of the mine crew and staff as well. Up to September the average number of men employed was 1,163; for the last four months, 926; or an average for the year of 1,084, against 1,277 for 1920.

Notwithstanding the reduction of labour, the tonnage mined was 896,802 tons, an increase of about 95,000 tons over last year, swelling the copper-output to 34,067,185 lb., an increase of nearly 9,000,000 lb., or about 35 per cent., over last year. The gold and silver yields were 7,652 oz. and 314,204 oz. respectively, each less per ton than last year, due to the fact that the quartz mined for flux from the *Rambler* carried no metal contents. Although there was a marked increase in the copper-output, the total value of the year's production will be considerably less than 1920 on account of the shrinkage in market prices of silver and copper.

No quartz was mined from the Granby Point quarries this year, but 22,500 tons was taken by the company from the *Rambler* claim just above the smelter.

The company's lime-rock quarries at Swamp point were not operated until April, the requirements for the first three months being drawn from storage. A total of 12,000 tons was mined during the balance of the year.

The greater portion of the 900,000 tons of ore mined and smelted was produced from the glory-hole and underground stopes above the 385-foot level, which is the main haulage level to the crushers, which are on the 230-foot level—No. 1 underground and No. 2 crusher on the surface, both discharging to storage-bins above the 150-foot level, the main haulage to the smelter. Also considerable heavy sulphide ore from No. 1 and No. 5 ore-bodies was hoisted from stopes above the 150-foot and below the 385-foot levels, the tonnage hoisted gradually increasing as the stopes became larger.

The large shrinkage stope in the No. 2 ore-body, which was started in 1916, was finished in the early part of September, making available such a large tonnage of ore that mining was discontinued in other parts of that ore-body. About 15,000 tons monthly was drawn from this stope during the last three months of the year. In the five or six years that this stope has been in operation there has been about 75,000 tons of what is considered high-grade ore broken, and it is worthy of note that during the mining of this large tonnage there was only one accident that resulted fatally and no others of any consequence.

In April contract stoping was started as an experiment in the No. 1 and No. 5 ore-bodies on the 150-foot level and has been continued throughout the remainder of the year, proving satisfactory in every way. There are two men in each contract, their pay depending on the footage they drill, the work being measured daily at the end of each night shift and the total footage drilled turned in to the office. The rates paid vary from 7 to 16 cents a foot of hole drilled, depending on the hardness of the ground, and the men never make less than day's pay and generally from $1 to $2 more. All machines, tools, etc., are supplied by the company.

Regular development continued uninterrupted up to September 1st, when owing to necessary curtailment all underground development ceased. The most of the development was done on the 150-foot and zero levels. The 150-foot level development was well along at the No. 1 and No. 5 ore-bodies, with only a few raises yet to be driven when work was stopped. The 10B crosscut has yet some 1,500 feet to go for the purpose of opening up No. 6 ore-body, and no crosscutting has been done in the direction of No. 2 ore-body. The zero level development consisted of crosscutting from the shaft, through the No. 1 ore-body, and into the foot-wall a distance of 400 feet.

Diamond-drilling continued throughout the year, encountering considerable extensions to ore-bodies, which materially increased the ore reserves. The diamond-drill was operated at the

* For general description of plant and mine *see* Minister of Mines' Report, 1917, and for coke and by-product plant, Report of 1919.

Bonanza mine for about three months during the summer, with very satisfactory results. This was the only work done in the *Bonanza* this year.

Many improvements in buildings and surface operations were made around the mine. The No. 1 and No. 2 bunk-houses were thoroughly renovated and added to. An assay office was started in June at the mine to handle the daily stope and drill-core work which had previously been done at the smelter assay office. A small dam was constructed on East Hidden creek to supply the increased demand for water for domestic and mine purposes. The No. 3 crusher unit, which was being built as an auxiliary to No. 1 and No. 2 crusher plants, was rushed to completion in January after the destruction by fire of the No. 2 unit on December 24th, 1920.

The most important new surface work was the reconstruction of the No. 2 crusher plant. The destroyed structure was built entirely of wood, reinforced with steel plate, and was always considered unsafe from fire. To prevent a recurrence of loss by fire, as well as to minimize repair and maintenance costs, the new plant was constructed of reinforced concrete. The structure consists of two cylindrical, reinforced concrete bins 24 feet in diameter, with walls 10 inches thick. Each bin is supported on twenty-four concrete pier foundations set on bed-rock and has a capacity of 750 tons of ore; these two bins are about 16 feet apart from wall to wall and between them is the crushing unit, enclosed by walls of metal lath and cement plaster. The building has three floors—feed, motor, and sampler—with oil, tool, and change rooms contained under one of the bins. The cost of the plant, including crusher, chute castings, electrical equipment, etc., complete, was about $50,000 and took about eight months to construct.

The coke and by-product plant was also in continuous operation throughout the year, producing 56,021 short tons of coke; 5,587 short tons of breeze or fine coke; 687,912 imperial gallons of tar; 9,189 imperial gallons of tar-paint; 2,162,155 lb. of ammonium sulphate; 213,485 imperial gallons of crude benzol; 188,738 imperial gallons of refined benzol; 61,000 lb. of naphthalene. The 100-ton "pilot" concentrator was not put into commission this year.

A great deal of scouting-work was done by the company this year and a great number of properties examined, but as yet no new work has been undertaken. With copper quoted at 13.55 cents for the average price for December, and the idle big producers anxiously waiting a little higher price to warrant a resumption of operations, it looks as if copper would remain about where it is for some time. It is understood that extensive work is contemplated by the company in the construction of a concrete dam that will provide ample power for all purposes the year round. H. S. Munroe is the general manager and J. A. Bancroft the assistant general manager at the plant at Anyox.

Golskeish Mines, Ltd.

This property, situated on Deep bay, about 3 miles from Anyox, has been producing and shipping to the Granby Company all year under the management of H. Heidman. The output of quartz, which is used for fluxing, was 9,203 tons, containing 943 oz. gold and 3,518 oz. silver. This is nearly three times the tonnage shipped last year and nearly double the amounts of gold and silver. Some barren quartz was shipped which reduced the average values, but the shipments made from the main pay-shoot averaged about the same as last year.

Hastings Arm Section.

Assessments were done for the year on the several properties situated up from the head of Hastings arm. A much-needed trail was repaired and cleaned out for about 8 miles by the claim-owners in that section, with assistance granted by the Department of Mines.

Alice Arm (Proper) Section.

Lime and Roundy Creeks.

The area at the heads of Lime and Roundy creeks is apparently a well-mineralized one and worthy of close prospecting. There is an old prospector's trail up Lime creek and a worse one up Roundy creek. The area warrants a good trail up the south side of Lime creek and some repairs on the Roundy Creek trail.

Lynx Group.

This is a restaking of the old *Cariboo* group. The old work consisted of a tunnel, now caved, about 50 feet long, driven across a hornblende dyke into a pegmatitic-looking formation in which occur small veinlets of molybdenum. Along the creek for 500 or 600 feet above the tunnel can be seen bands of quartz or quartz

porphyry up to several feet in thickness, alternating with wider belts of altered granite filled with quartz-seams, the whole carrying pyrites and molybdenum on the fracture faces.

Verona Group. This group consists of two claims—*Verona* and *Verona No. 1*—owned by Tom McCrostie, of Alice Arm. The claims are situated at the head of the South-west fork of Lime creek, at 3,250 feet elevation, and can be reached either by the trail up Lime creek or around by Roundy creek. The showing consists of a quartz vein from 6 to 24 inches wide, lying on the hanging-wall of a felsitic dyke about 6 feet wide which intrudes the slate or argillite country-rock. The vein strikes S. 10° W. (mag.) up the hill and dips 65° W., conforming with the strike and dip of the dyke, and from its evident connection with the dyke should be persistent. It has been uncovered about 400 feet farther up the hill. The quartz is heavily pyritized and there are also bands and bunches of mixed galena, pyrite, and zinc-blende. A sample of the mixed sulphides assayed 5 oz. silver to the ton and 9 per cent. lead. A sample of the galena assayed $2 a ton in gold, 33.7 oz. silver, and 23.5 per cent. lead. This is a rather promising little showing and warrants opening up.

Morley's Claims. These claims are situated on Roundy creek, 2,300 feet elevation, and about 1½ miles from tide-water in an air-line. The formation here seems to be a gneissoid granite that is either a shear-zone in the massive granite or the border of the granite near its contact with the argillite. Mr. Morley and two men were at work on the property and had done considerable open-cutting and stripping. A short tunnel also had been driven on a small quartz vein that was exposed in an open-cut above. The quartz vein lies in a siliceous belt about 50 feet wide, schistose along the sides near the massive granite, but more broken up in the centre, with small quartz veins running in all directions. The walls strike N. 45° W. (mag.) and stand almost vertically. One cut along the hanging-wall and above the present work shows a width of 6 feet or more of broken-up quartz and feldspar, with small veins of mineralized quartz and seams of solid galena, zinc-blende, and pyrites through it. A grab sample of the best-mineralized quartz-seams assayed $2 in gold and 142.5 oz. in silver to the ton.

This is an interesting-looking belt and with its width could easily develop a big tonnage of milling-grade ore. It is ideally situated for a tram-line to tide-water, straight down the gulch, which has evidently been formed by the erosion of the softer vein material.

Kitsault River Section.

The plight of the *Dolly Varden* mine has had a rather depressing effect on the town of Alice Arm from a business standpoint, and, of course, has not been much of a "boost" for the mining end of the section. However, the most serious phase of the situation is the question of transportation, due to the non-operation of the Dolly Varden Railway, and later made worse by the washing-out of a portion of the railway-grade and seriously damaging two or three of the bridges. It is vital to the mining development of the Kitsault valley, and consequently to the town of Alice Arm, that the railway be kept in repair, if only for the use of hand-cars for a time. This will practically eliminate any deleterious results from the inactivity of the *Dolly Varden* itself.

A great deal of prospecting and exploratory work has been done by the claim-owners throughout this section.

Independent Group.—This group, situated just above the town of Alice Arm, has had some further work done on the showings this year by the owner, Archie McPhail.

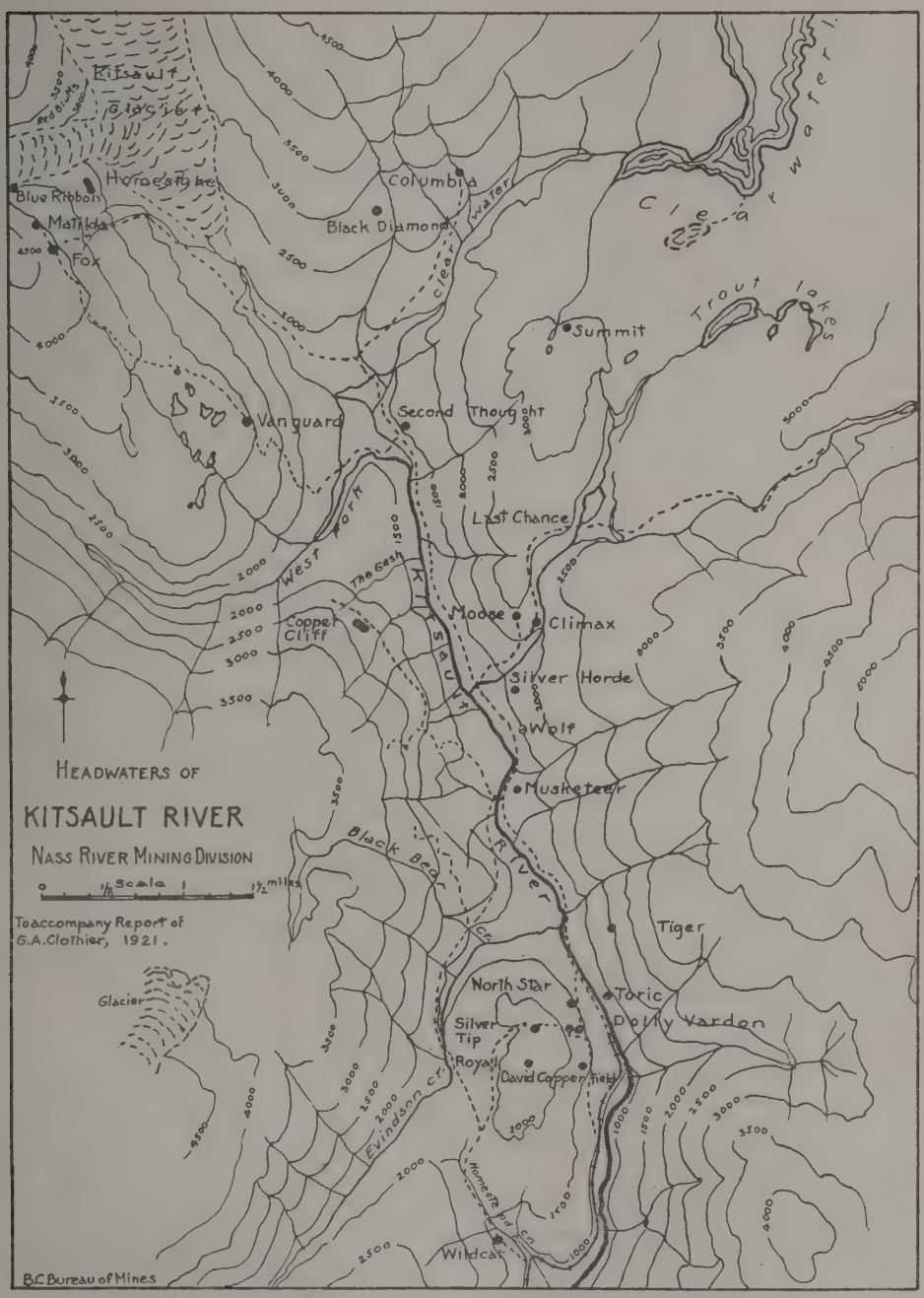
Black Bear or Esperanza Group. This group of three claims—*Black Bear*, *Aldebaran*, and *I Chance It*—was known in the early days as the *Roundy* property, having been staked and opened up by Frank Roundy, one of the first men in Alice Arm. Later it was acquired on a wage claim of a few hundred dollars by the Salinas Bros., who continued small shipments of high-grade silver ore each year. This spring the property was purchased by Mr. Elge, who has undertaken more extensive development-work, employing three or four men. He informed me that he was driving a crosscut tunnel about 150 feet long to get under some of the old upper workings, and at the same time drifting on a small high-grade vein that has just been opened up by Salinas. No shipments have been made yet, but he is confident that the ore taken from the drift will repay all expenditures. It is expected that shipments will be made some time during the winter.

Alice Arm La Rose Mining Co.—This company has not done anything this year on the *La Rose* group of claims on Paul Kladuc creek, which it acquired last year. (*See* Reports, 1919 and 1920.)

CORRIGENDUM.

Referring to page 51: The Consolidated Homestake Mining and Development Company wish to state that their company is not a reorganization of the Mineral Claims Development Company, and that their mineral holdings were not acquired from the Mineral Claims Development Company.

PROVINCIAL MINERALOGIST.



Wild Cat Group. (*See* Report, 1918.) There are four claims in this group—*Wild Cat*, *Montana*, *Slocan*, and *Medallion*—situated on the west side of the Kitsault river, above the Homestake Creek bridge. The owner, A. Davidson, of Alice Arm, has been extending the tunnel toward cutting a fair-looking vein of copper ore about 2 feet wide showing on the surface.

Dolly Varden and Wolf.

These mines were operated by the Taylor Engineering Company, Limited. There has been very little activity on the *Dolly Varden* and nothing whatever doing on the *Wolf*. During the summer about 1,874 tons of ore that had been broken down last year was shipped to the Granby smelter at Anyox, yielding 45,648 oz. of silver. In the latter part of September a small crew was put on at the *Dolly* for the purpose of developing a showing of shipping-grade ore that had been recently discovered on the surface. This work, however, apparently proved disappointing, for the crew was laid off and the mine closed down. A further discouragement occurred this fall when a portion of the railway-grade was washed out and two or three of the bridges damaged.

The property is equipped with a 500-horse-power plant at the *Wolf* mine; a complete mine equipment at the *Dolly Varden;* an 18-mile railway from tide-water to the *Dolly Varden* mine; plenty of rolling-stock for the railway; capacious ore-bunkers at the beach and a spur to them from the main line; wharf, offices, repair-shops, etc., at the lower terminal of the railway. A good tonnage of milling-ore blocked out and a concentrator would go well with the property now.

North Star.

The Alice Arm Silver Mining Company, Limited, owns this property, which lies just north of and adjoining the *Dolly Varden.* Very little work has been done on the property this year. Last winter some ore was sorted out, rawhided down to the railway, and shipped this spring to the Granby smelter. The shipment was 85 tons, giving returns of 1,870 oz. silver. James McAleenan, of Alice Arm, has charge of the company's affairs.

Vanguard Group.

Owned by Maurice Petersen and the Strombeck Bros. The camp and showings are reached by a trail branching from the main Kitsault River trail at the *Second Thought* cabin. The trail continues from the *Vanguard*, along the side-hill, to the *Matilda* tunnel, which lies above the *Homestake* group. The owners are working each year on this group, but in their absence I did not examine the property this year. The reader is referred to the Minister of Mines' Report for 1918, page 65.

The *Tip Top* and *Fox* claims were also described in 1918 Report.

Matilda.

This claim is owned by A. E. Smith, of Alice Arm. It is located above the *Homestake* group at an elevation of 4,100 feet. It has been made easily accessible by the extension of the *Vanguard* trail, which also serves the *Tip Top*, *Fox*, and other claims. This trail was built by A. Smith and O. Flint with aid from the Department of Mines.

Work on the *Matilda* claim consists of a tunnel at 4,100 feet elevation, driven about 30 feet in a siliceous, pyritized greenstone. The strike of this greenstone-belt is S. 70° W., while the tunnel was driven on a bearing of S. 30° W., or diagonally across it. The last work done was a crosscut from the face, at 45° to the right, which would make its bearing on the strike of the mineralized belt. The face of this crosscut is quartz and feldspar, disseminated with coarse-grained iron pyrites, an assay of which gave low values in gold and silver. It is, however, a big strong showing and should be drifted on.

Blue Ribbon Group.

This group, consisting of the *Silver Tip*, *Silver Tip Fraction*, *Blue Ribbon*, and *Mountain Goat* claims, is owned by J. Fiva and H. Ness, of Alice Arm, who have done a very creditable amount of prospecting not only on these claims, but in the vicinity. The group lies above or west of the *Homestake*, north of and adjoining the *Matilda*, and south of the West arm of the Kitsault glacier. There is no timber on the claims and the camp cabin is therefore located on the north side of the arm of the glacier.

The prevailing country-rock of this group—in fact, of the mountain—is greenstone or green andesite. At an elevation of 3,600 feet, and about 100 feet above the glacier, the owners were driving an open-cut to hit a quartz vein seen cropping on the surface. The cut was in about 25 feet and still in a soft material, which obscured the vein, along the abrupt face of the mountain. The vein cropping above this shows a width of about 12 feet of quartz mineralized with pyrites, zinc-blende, and galena, parallelling the *Homestake* vein below it. On the surface the vein carries small values in silver and a trace of gold.

On the *Blue Ribbon* claim of the group, at an elevation of 4,575 feet and near the head of the West arm of the glacier, there is a belt of argillite about 100 feet wide cropping through the andesite on the north side of the mountain. Higher up the andesite can be seen overlying the argillite, which again crops on the south side of the hill. This belt has been badly crushed

and broken up and the fracture-cracks filled with calcite mineralized with chalcopyrite, with a little galena showing as well. Free gold can frequently be detected in the calcite and the fine, black, decomposed material pans gold freely. Samples of the pure chalcopyrite assay 34 per cent. copper and $2 in gold to the ton. A sample of several pieces of the calcite, showing a little chalcopyrite, assayed a trace of gold, trace of silver, and 1.8 per cent copper. It is very doubtful if the calcite stringers are numerous enough or carry sufficient values to make the whole a commercial ore. Some work would have to be done to get below surface conditions in order to obtain average values. There is a foot-trail leading up from the lower claims of this group and also a trail from the *Matilda* tunnel.

Homestake Group.

(*See* 1918 Report, page 64.) The Consolidated Homestake Mining and Development Company, Limited, whose head office is in the Credit Foncier Building, Vancouver, is a reorganization of the Mineral Claims Development Company, which was incorporated three years ago and acquired the *Homestake* group from the original owners, A. Davidson, Gus Pearson, and A. Smith, of Alice Arm. The holdings consist of the four claims—*Homestake No. 1*, *Homestake No. 2*, *Homestake No. 3*, and *Homestake No. 4*—situated 26 miles up the Kitsault river from tide-water, on the west bank of the lower end of the Kitsault glacier. It is about 8 miles from the upper terminus of the Dolly Varden Railway over the main Kitsault trail, which has been put in fairly good repair and fit for pack-horses. Though the property was taken over three years ago, this is the first year that any development-work of importance has been done.

The prevailing rock formation of Homestake mountain appears to be a green andesite. A number of open-cuts have exposed a mineralized zone or vein of siliceous rock up to 35 or 40 feet in width, carrying pyrite, chalcopyrite, and galena. The vein strikes about east-west (mag.) along the side-hill. On the lower side of the main vein one very promising cross-vein has been opened up by open-cuts, and other smaller veins were noted, all having a general strike of S. 70° W. up the hill, and therefore intersecting the main vein at an angle of about 20°. The same feature is shown above the main vein in the veins of the *Matilda*, *Tip Top*, *Fox*, and others, all striking about S. 70° W. into the hill. These cross-veins will no doubt have an important bearing on the mineralization of the main zone, in which enrichments may be expected at the points of intersection.

This year development of the property was undertaken, with Captain Gerhardi in charge and Major Creighton as foreman, with a crew of about twelve men. Tent camps were put up at 3,100 feet elevation by excavating along the steep side-hill. The main Kitsault River trail was put in shape from the Kitsault bridge to the camp, a distance of about 2 miles. Mining-work was started about August 1st and vigorously maintained until about October 15th. In that time No. 1 tunnel at 3,350 feet elevation was driven 123 feet, No. 2 tunnel driven 47 feet, and No. 3 tunnel faced up on the surface; in all, a very creditable amount of work. At the time of my examination No. 1 tunnel had been driven 107 feet, the last 4 feet showing mixed sulphides, pyrite, a little chalcopyrite, galena, and zinc-blende. Later information from Mr. Gerhardi is that, at 115 feet in, a 7-foot vein was cut through, averaging $45 in gold and 2.14 oz. in silver to the ton and 0.75 per cent. copper. It is expected that this tunnel will encounter the main vein in about 40 feet.

No. 2 tunnel is planned as the main working-level and will have to be driven about 600 feet to cut the main vein. It is further planned to install a compressor in the spring, driven by water-power developed from Helme creek; extend No. 1 tunnel to the main vein, on which a depth of 150 feet will be obtained, and do some exploratory work on it; and drive No. 2 tunnel. The property is certainly looking encouraging and, I believe, has a good chance of developing into a valuable producer.

Second Thought Group.

(*See* 1918 Report, page 63.) Some work was done this spring in open-cutting on the upper (or east) vein. This work shows a strong vein of brecciated quartz and slate, apparently on the contact of the slate and andesite, since the upper cut shows andesite on the foot-wall. There is no mineral of any account showing in these cuts. This vein strikes N. 72° W. (mag.) and dips 38° W., about conforming with the slope of the hill, and cannot be over 75 feet east of the lower vein. The lower vein about parallels this but dips at 65° W.; the veins would therefore come together at very little depth. Since I was on the property this summer, Jack Graham, one of the owners, has extended the crosscut tunnel on the lower vein a further 25 feet through banded quartz and

slate to an andesite formation in the face. No values of any account were found. The andesite here may be only a spur from the main mass, or it may be that the two veins have merged and the andesite is the foot-wall, as shown in the higher cuts. I would advise some drifting from the tunnel, where the best values were found.

Columbia Group. This group of five claims, owned by Pete Anderson and Fred Brown, is situated on the north side of Clearwater creek, about 2 miles from the *Second Thought* cabin. Pete has built a fair trail, branching from the main Kitsault trail above Clearwater creek, to his cabin, which is at 2,600 feet elevation. He has driven a tunnel 83 feet, following a brecciated vein of quartz and slate in a slate country-rock. No values were obtained on the surface on this vein and at only one point in the tunnel were any values found—$5.60 to the ton in gold. The owner insists on driving the tunnel, so I advised him to stay on the foot-wall of the vein and "go to it."

Summit Group. There are two claims in this group, owned by A. Davidson, D. W. Cameron, and O. Evindsen, of Alice Arm. The claims are situated on the divide between Clearwater and Trout creeks, at an elevation, where the work was done, of about 3,100 feet. An open-cut or trench was run for a length of 75 feet, following a shear-zone in greenstone porphyry, and exposing parallel seams of quartz across a width of from 10 to 12 feet, sparingly mineralized with galena. A tunnel 150 feet long was driven under this surface showing, but disclosed nothing except a few stringers of barren quartz cutting across the tunnel.

Last Chance Group. (*See* 1918 Report, page 62.) The owners of this group, Archie McPhail and Pat Morley, have done a lot of work on the showings since the property was diamond-drilled two years ago. A great deal of stripping and open-cutting has traced the vein for over 1,000 feet and some fine ore has been found. The owners have decided to run a crosscut tunnel from the foot of the hill to the vein, a distance of 200 feet, which will give about 140 feet depth on it. About 55 feet of this work was done this fall and will be resumed in the spring. Judging from surface indications, I think there is a good chance of opening up a big body of at least milling-grade ore, with probabilities of finding lenses of high-grade ore in the vein.

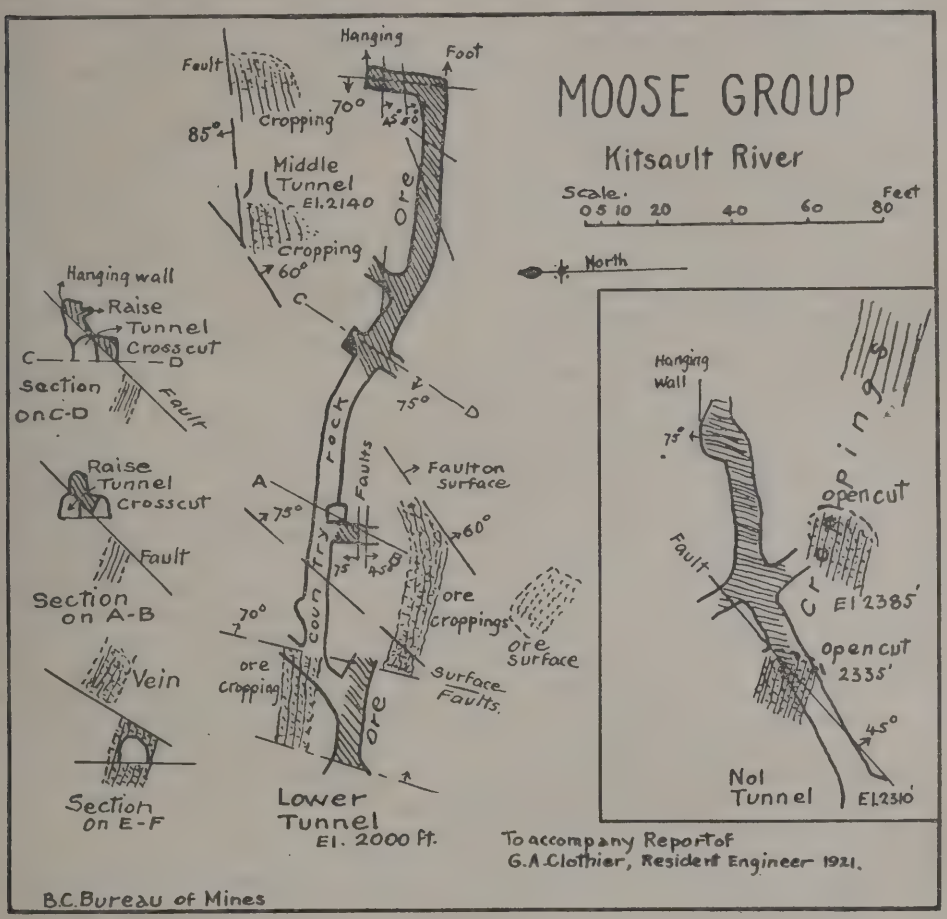
Moose Group. This consists of five claims—*Moose No. 1*, *Moose No. 2*, *Moose No. 3* *Moose No. 6*, and *Moose Fraction*—staked by Don Cameron, and owned by him and associates, of Alice Arm. The claims are situated on the north side of Trout creek, about 3½ miles from the Dolly Varden Railway. Last fall, 1920, a syndicate was formed in Vancouver, called the Moose Group Mining Company, Limited, and a lease and bond taken on the property. Camps were put up and a crew of men kept at work all winter. Before the snow came extensive surface prospecting was done by open-cutting, the winter work consisting of driving two tunnels, called the upper (or No. 1) and the lower (or No. 3).

The No. 1 tunnel, at 2,300 feet elevation (*see* sketch), had been driven about 35 feet by the owners for the purpose of getting under a good-looking surface showing that had been exposed in an open-cut. At the face the vein was shown to be about 12 feet wide, 6 feet of which would average 30 oz. silver to the ton. The company extended this tunnel 60 feet in ore of good milling grade all the way, selected samples assaying up to 600 oz. silver to the ton, and altogether giving very encouraging and satisfactory results. The No. 2 (or middle) tunnel, the position of which is shown on the accompanying sketch of the No. 3 tunnel, has been driven on the vein, but only a small amount of work has been done here.

The No. 3 (or lower) tunnel at an elevation of 2,000 feet, was started by the company and driven about 130 feet. The first 15 feet from the portal is on the vein, to a cross-slip which was followed to the left about 25 feet. Finding nothing along the slip, the tunnel was turned to the right and driven about 90 feet in country-rock on the bearing of the vein, about east, as shown in the first 15 feet of the tunnel. This work proved disappointing and work was therefore discontinued and the bond relinquished early this year.

The owners were, of course, disappointed in the results of the work and not altogether satisfied, so decided to "take another stack" in the game themselves. Their first work on the property this summer was to drive ahead through the slip, showing about 15 feet in from the mouth of the tunnel, and pick up the vein at that point. They then turned to the right from the face of the tunnel inside, found the vein in-place, and drifted 75 feet along the foot-wall. Crosscuts were driven to the hanging-wall, showing the vein to be from 10 to 22 feet wide. The

general tenure of the ore is low grade, with a little improvement on the hanging-wall side. Good ore was found on both sides of the slip followed in the crosscut at the face; in fact, the higher grade is always found at or near the cross-slips.



The details of the accompanying sketches, croppings, faults, slips, cross-sections, etc., were taken from a very interesting assay map worked out by D. W. Cameron, one of the owners. It is their intention to carry on development-work if the Dolly Varden Railway is put in repair, and so enable them to ship ore that can be sorted out as they go ahead.

Toric Group. There are four claims in this group—*Toric*, *Anglo*, *Moose*, and *Lamb*—situated on the east side of the Kitsault river, a little north of and opposite the *Dolly Varden*. They extend from the river up the hill along the strike of the vein, which could be the extension of the *Dolly Varden* vein. The property is owned by the Strombeck Bros., of Alice Arm, and Al. Miner, who have done a very creditable amount of work in prospecting for and opening up the vein. The main vein, which strikes about N. 80° E. (mag.) and dips 65° N., has been exposed by a crosscut tunnel located about 150 feet above the railway-grade; several open-cuts above the tunnel tracing the vein for 500 feet or 600 feet up the hill; and several open-cuts and trenches on the upper claims. The tunnel shows a cross-section of the vein, of 5 feet of well-mineralized banded quartz and a reddish rock resembling jasper, on the foot-wall; then 8 feet of andesite country-rock; then 4 feet of vein without reaching the hanging-wall.

In one of the open-cuts about 500 feet above the tunnel some ore showing native silver was struck last fall. This year this was further explored and about a foot of high-grade ore exposed

on the foot-wall of the vein, which has here been crosscut for about 4 feet. This part of the vein is a breccia, consisting of a milky-looking quartz, fragments of andesite, and glassy quartz and jasper. The whole is mineralized with pyrite, argentite, and native silver, the latter occurring not only on the seams, but distributed in thin flakes and seams through the quartz. A crosscut was started about 30 feet below this open-cut to obtain further depth on the native silver showing.

I did not get to the upper showings, but John Strombeck informed me that in running an open-cut he crossed a 5-foot vein, an average sample of which assayed over 100 oz. to the ton in silver. With the vein traced for 600 or 700 feet on the lower end, and what is presumably the same vein exposed on the upper claims, and ore of good grade showing in several places, the property is looking very promising.

Ruby Group. This group, consisting of two claims—*Ruby* and *North Star Fraction*—lying south of the *Toric* group and east of the *Dolly Varden*, on the east side of the Kitsault, has been under option to J. C. Smith, of Seattle. No work has been done on the property this year, but in the two previous years about 100 feet of tunnel was driven. The surface showing consists of a broken-up andesitic dyke in which are veinlets of quartz showing little or no mineralization. To explore this an open-cut 12 feet long was made and continued in a tunnel 60 feet long, from which two or three crosscuts, the longest about 45 feet, were run to explore the ground at a depth of about 40 feet. There is nothing in the shape of mineralization showing in any of the underground work.

Silver King and Eagle. These claims are owned by Louis Forsberg, of Alice Arm, and are situated about half a mile south of the *Central* group and about 1½ miles from the Kitsault, at an elevation of 1,400 feet. The river is crossed on the cable at McFarlane's cabin and the trail followed down the east side of the river about a mile before climbing the hill. The trail should be cut from the river-trail up to the showings. The showings are quartz veins up to 3 feet in width, occurring in a shear-zone about 50 feet wide in andesite formation. The general strike of the zone is N. 15° W. (mag.) and the quartz veins, so far as shown, parallel the walls. The quartz is mineralized with pyrite and some galena and zinc-blende and carries $8 to $10 values to the ton in gold and silver, mainly the latter. Considerable open-cutting and stripping has been done across the zone, for the work of one man. On the hanging-wall there is a fairly well-defined vein exposed up to 3 feet in width, dipping about 70° E. On the foot-wall side of the zone an excavation about 4 feet deep shows a face of andesite in which are stringers of slightly mineralized quartz. I advised driving into the hill on the hanging-wall vein, gaining good depth, to ascertain if there was any improvement in values, which is frequently found with depth in this section. A crosscut could then be driven from this tunnel cutting the balance of the zone.

War Dance Group.—This group, situated up the East fork of the Kitsault, consists of six claims, owned by A. McGuire, of Alice Arm. He has done considerable work this year on this group and other individual claims. I understand that this and two other groups have been bonded.

Illiance River Section.

There has been considerable exploratory work done in this section this year, but unfortunately, the results have not been as favourable as expected from surface indications. However, the amount of work done has not been sufficient to gain any conclusive information.

Much-needed work in reconstruction and repairs was done on the trail, with appropriations from the Department of Mines. I understand that the trail is now in good condition for pack-horses all the way from the beach to the divide.

McGrath Mountain.—Assessment requirements have been kept up on all the claims in this vicinity, including the *Silver Bell*, *Lone Star*, *Silver Band*, *Standard*, and *Dixie* Groups.

Copper Creek Group. This group consists of five claims—*Black Diamond No. 1*, *Black Diamond No. 2*, *War Eagle*, *Little Giant*, and *Liberty*—and is owned by G. W. Morley and partner, of Alice Arm. The claims are located about a mile below Copper creek, or about 5 miles up from the beach along the Illiance trail. The owners have done a lot of work this summer in open-cutting along the hillside on the vein. This work shows the wall-rock to be diorite. The mineralization has been exposed across a width of 50 feet and consists of bands of black, cherty-looking quartz and a fine felsitic rock. The quartz-

bands are up to 5 feet in width and contain small stringers of steel galena and pyrite. A grab sample from the dump, not intended for an average but for the purpose of obtaining relative values, gave a trace of gold, 1.2 oz. silver, and 6.5 per cent. lead. The owners state that they have found high silver values in different places.

Bellevue Group.

(*See* 1920 Report, page 51.) The Alice Arm Holdings Company, Limited, whose head office is at 614 Pender Street West, Vancouver, is incorporated with a capitalization of $1,000,000, in shares of $1 each. The *Bellevue* group, under bond to and operated by this company, consists of the five claims—*Bellevue No. 1*, *Bellevue No. 2*, *Bellevue Fraction*, *Snow Fraction*, and *Blenheim*—situated about 13 miles up the Illiance river from Alice Arm.

The rock formation in this portion of the Illiance valley is an altered porphyritic andesite, more or less schistose and slightly pyritized throughout. In this formation are belts or zones of soft schists, probably caused by intense shearing action, which have been replaced in part by lenses, stringers, and parallel bands of quartz mineralized with iron pyrites, zinc-blende, galena, and grey-copper, all carrying gold and silver values. There are apparently several of these mineralized zones, the most important so far being the one cropping at the south end of the *Blenheim* claim. Surface sampling of this by an examining engineer gave an average of 23 oz. silver to the ton across 15 feet. This surface showing is an exceptionally favourable-looking one.

This year's work, carried on through all last winter and up to late in the fall, consisted in driving a crosscut tunnel under the big outcropping, and two drifts from it, each about 30 feet long, on small lenses of ore crossed in the tunnel. In addition to the underground work, considerable surface work was done on another vein east of the one above the tunnel and seen cropping along the bank of the river. This work consists of a number of open-cuts and a small crosscut tunnel, all cutting the vein and showing it to be 3 or 4 feet wide, containing stringers up to 6 inches thick of fine-grain galena. As this vein is only a few feet above the creek and paralleling it, no depth of any account can be gained by crosscutting from the bank or by drifting on the vein. It is, however, well worth while sinking on anywhere between or at the two lower cuts, where the mineralization is the strongest. This vein lies along or very close to a strong diorite dyke which extends up and down the creek a long distance, and which probably has something to do with the mineralization found so close to it.

The tunnel and drifts driven last winter is a good piece of work and worthy of better results. It proved very disappointing in failing to find the extension downward of the big ore-showing on the surface. The tunnel was driven 280 feet, obtaining a depth of about 100 feet vertically beneath the vein-cropping and about 140 feet at the face. It crossed a considerable width in which occur small lenses and stringers of ore, which, however, are not big enough or continuous enough to make the ore of commercial value. Two short drifts were run on the best of these small showings, but did not amount to anything. I would advise the company that further exploratory work be done underground by driving the crosscut tunnel ahead until it is certain that the vein showing on the surface has been crossed, or until the cross-slip which shows on the trail going down to the tunnel is encountered. This cross-slip, running to the dyke, is also mineralized, and it is very possible that where it intersects the main vein, which parallels the dyke, is the point where there is a concentration of mineralization. It may possibly displace the main vein, and therefore further work is necessary to obtain more conclusive information.

All the work has been well placed and well done. Mr. Hughes, who has had charge of the work, is deserving of credit for the amount and quality of work he has accomplished with the number of men he has had employed and the difficult trail conditions with which he has had to contend. Altogether, the affairs of the company appear to have been well handled in a businesslike and efficient manner.

Silver Bell Group.

This group, owned by Joe Hayes and associates, has had assessment-work done this year. The reader is referred to the Minister of Mines' Report of 1918, page 71, for a full description of the property at that time. Subsequent work has opened up some of the surface showings to a little depth, and I think the property would pay to operate in a small way by sorting and shipping the high-grade ore.

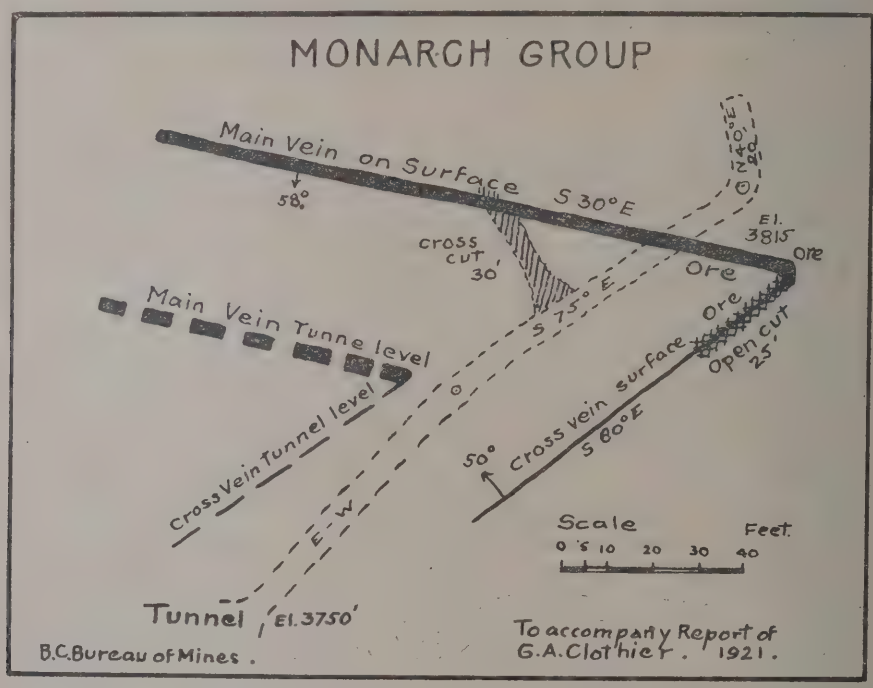
United Metals Mining Co., Ltd.—Nothing has been done on the property for the past two years.

Silver Star Group.

This group was further developed this year by the owners, A. R. Hodgson and associates. Last year a crosscut tunnel cutting the vein and a drift on the vein made a very encouraging showing. This year's work, however, consisting of more drifting and crosscutting, proved very discouraging, in that it was demonstrated that the small parallel veins or lenses of ore gradually diminished and disappeared in the soft gangue. Work was discontinued early in the summer.

Monarch Group.

There are two claims in the group—*Monarch* and *Monarch No. 2*—owned by W. B. Bower and associates. The claims are situated just to the right of Summit lake, the source of the Illiance river, on the divide between Alice arm and the Nass River valley and about 16 miles from tide-water at the head of Alice arm. A few years ago a crosscut tunnel (*see* sketch) was driven 144 feet for the purpose of locating the downward extension of a well-defined, well-mineralized vein that had been open-cut and stripped, exposing some very fine ore on the surface. The tunnel, however, failed to pick up the vein at depth and nothing further had been done on the property until

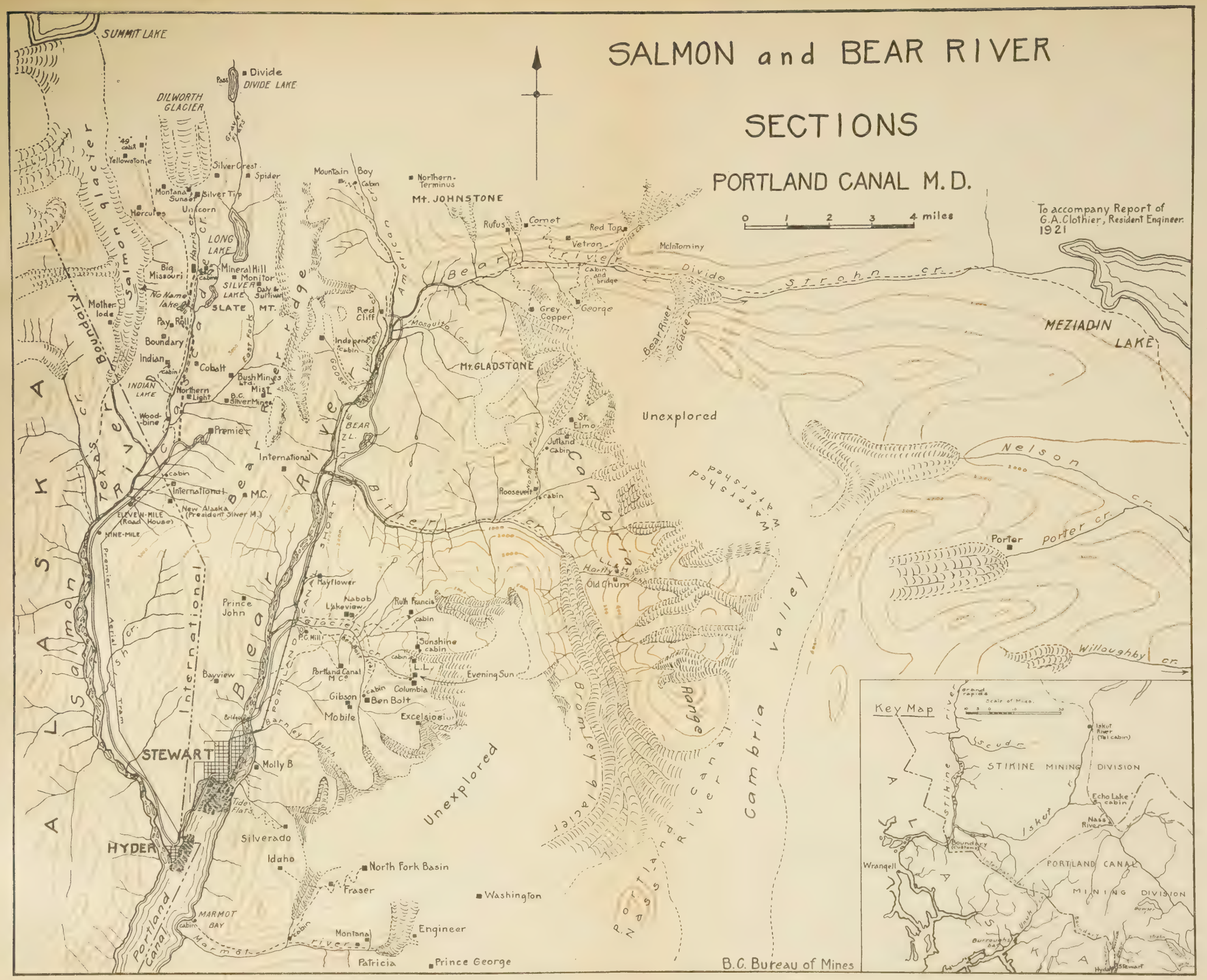


this year, when Bone & Hodgson procured an option on it. They first put in an open-cut on the cross-vein up to, but not through, the main vein. The face of this open-cut is 6 feet wide and 12 feet high and has a very fine showing of ore. A crosscut was then driven from a point about 90 feet in the tunnel to the left to cut this ore-shoot, but nothing was found. The crosscut is shown in the accompanying sketch, and I think it is too far in the tunnel and consequently under the foot-walls of both veins. I believe that a crosscut to the left, about 40 or 45 feet in the tunnel, or a short raise at 60 feet in from the mouth of the tunnel, would quickly prove whether the vein exists at that depth or not.

Glacier View.—This claim is situated about a mile beyond the *Monarch*, on the Nass slope, and is said to have a very promising showing. I have not seen the property.

Old Woman Group.

This group consists of four claims—*Old Woman No. 1*, *Old Woman No. 2*, *Old Woman No. 3*, and *Old Woman No. 4*—and is situated on the trail to Bowman lake, just over the divide on the Nass slope. They are owned by Henry Carney, of Alice Arm, and partners, who claim a big showing of considerable merit. I tried to find the showings from instructions, but lacking even a blazed trail from the main trail, I was unsuccessful.


SALMON and BEAR RIVER
SECTIONS
PORTLAND CANAL M.D.
0 1 2 3 4 miles
To accompany Report of G.A. Clothier, Resident Engineer. 1921
SUMMIT LAKE
Divide
DIVIDE LAKE
DILWORTH GLACIER
Yellowstone
Silver Crest
Spider
Montana Sunset
Silver Tip
Unicorn
Hercules
LONG LAKE
Mineral Hill
Monitor
SILVER LAKE
SLATE MT.
Big Missouri
Mother lode
No Name lake
Pay Roll
Boundary
Indian
Cobalt
INDIAN LAKE
Northern Light
Bush Mines Ltd.
Mist
B.C. Silver Mines
Wood-bine
Premier
International
International
M.C.
New Alaska (President Silver M.)
ELEVEN-MILE (Road House)
NINE-MILE
Mountain Boy
Northern Terminus
Mt. JOHNSTONE
Rufus
Comet
Red Top
Vetron
McIntominy
Cabin and bridge
Bear River
Divide
Strohn cr.
George
Grey Copper
Red Cliff
Independence cabin
Mosquito cr.
Mt. GLADSTONE
Bear River Glacier
MEZIADIN LAKE
Unexplored
St. Elmo
Jutland cabin
Roosevelt cabin
Bitter cr.
Nelson
porter cr.
Porter
Mayflower
Nabob
Lakeview
Ruth Francis
cabin
Old Chum
Willoughby cr.
Prince John
Bayview
P.C. Hill
Sunshine cabin
Portland Canal M.Co
Evening Sun
Columbia
Ben Bolt
Gibson
Mobile
Excelsior
Barney Lake
STEWART
Molly B
Tide Flats
HYDER
Silverado
Idaho
North Fork Basin
Fraser
Washington
MARMOT BAY
Portland Canal
Marmot
Montana river
Engineer
Patricia
Prince George
Unexplored
Bromley glacier
Portland River
Cambria Valley
Bear River Ridge
Key Map
STIKINE MINING DIVISION
PORTLAND CANAL MINING DIVISION
Wrangell
Boundary
Iskut
Stikine
Echo Lake cabin
Naas River
Iskut River (Tel cabin)
Burroughs Bay
Hyder
Stewart
B.C. Bureau of Mines

A good route for a prospector's trail from Alice Arm to the Nass river would be to follow the old Bowman trail from the 11-Mile bridge on the Illiance to Bowman lake, and from there down to a branch of the Tchitin river and that followed through to the Nass valley. From Bowman lake to the Nass would be, I should judge, about 12 or 14 miles.

PORTLAND CANAL MINING DIVISION.

This Division takes in all the country on the east side of Portland canal (the west side is Alaska) to the summit of the range, and all the upper basin of the Nass river from the White river, one of its tributaries, north. This latter portion of the Division, though over the Bear River divide, is included in it because it is at present more accessible by way of Stewart. Eventually there will probably be a good pack-trail or wagon-road built on an easy grade up the Nass river from Ayansh, the head of navigation, through to Meziadin lake and beyond. There is an old Indian trail through there now, but it is seldom used.

The town of Stewart, at the head of Portland canal, is the distributing centre for the Division and has the Government Recording Office. It is the most northerly seaport in the Province and is reached by Grand Trunk Pacific Railway boats from Prince Rupert, which make weekly trips in summer and fortnightly in winter, a gas-boat running from Rupert in the alternate weeks, carrying freight and passengers.

From Stewart to the heads of Salmon river and Cascade creek by way of Hyder and up the Salmon River valley is about 26 miles. Hyder is about 2 miles from Stewart, on tide-water at the mouth of Salmon river, and on the Alaskan side of the boundary. There is a first-class wagon-road between the two towns, built by the Provincial Government, to connect Stewart with the road up Salmon river. At present there is a good winter road to the *Premier* mine, about 17 miles from Stewart, which will be completed into a first-class wagon-road next year by the Alaska Road Commission to the boundary-line at 13-Mile. This road is being continued by the British Columbia Government from the *Premier* road a further distance of 7 or 8 miles up the valley. The upper part of the valley is now served by a pack-trail branching from the wagon-road at 13-Mile up the west side of Cascade creek to the *Forty-nine* mine, branching off to several other properties. There is also a trail from the wagon-road below the *Premier* following up the East fork of Cascade creek to the *Spider* mine. Prospectors working over the Salmon River divide, on the Nass slope, can have supplies packed to the *Forty-nine* or *Spider*, from either of which points it is about 8 miles over the divide to the foot of the glacier on the Nass side. It is good travelling over either glacier. That the Nass slope is a good prospecting country is evidenced by the samples of high-grade silver ore that have been brought in from that area.

From Stewart up the Bear River valley to the Bear River divide is 26 miles, of which the first 14 miles is over a fair wagon-road, from which there is a good pack-trail to the divide and on through to Meziadin lake and the Groundhog coalfields. The necessity of starting a trail branching from this on the east side of the divide and following north along the eastern slope of the Coast range for prospecting and exploratory work has been referred to elsewhere in this report.

There has been nothing doing on the Unuk River area this year. A trail from tide-water up the river to the mineralized area above the boundary-line is essential to the opening-up of this section, which is another small area of the Eastern Contact Belt lying on the Pacific slope, similar to the Salmon and Bear Rivers sections.

The Portland Canal Mining Division has probably felt the general mining depression the least of any part of the district, on account of the intense activity of the Premier Gold Mining Company, which has employed several hundred extra men throughout the year in tramway and other construction-work. Otherwise mining has been very quiet, except that there has been more than the ordinary amount of work done by individuals on their claims. The only other company operating in the Division is the Silverado Mining Company at Stewart. The prospector seems to have been exceptionally busy, for many samples of fine ore have been brought in from all directions. The prospector is at last getting down to business. It looks as if there might be a number of small shippers of high-grade ore developed in the coming year.

I am informed that the new Government dock at Stewart is to be enlarged as soon as the work can be gotten under way. It can be realized that the present docking and freight-handling

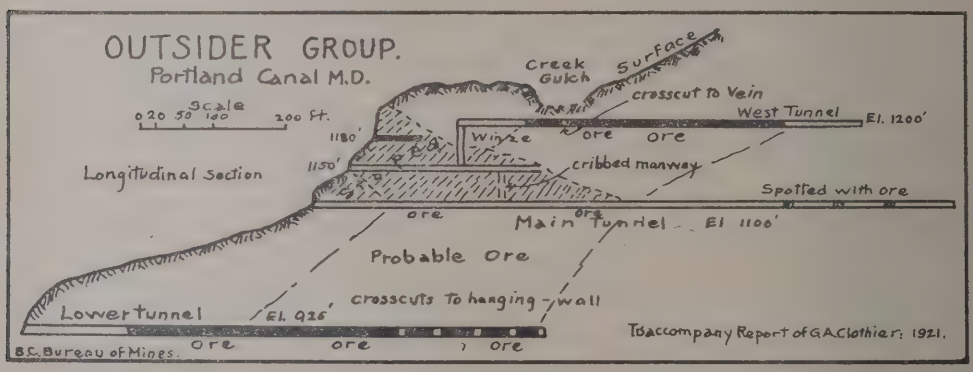
facilities are totally inadequate, when the Premier Company alone handled over 6,000 tons of incoming freight and shipped out about the same tonnage of ore.

The Summary Report, 1920, Part A, issued by the Geological Survey of Canada, contains the Preliminary Report of S. J. Schofield on the Salmon River area, giving valuable information regarding the geology and ore occurrences of that section. The geological map has been issued since the report and both may be obtained from the Mines Department, Ottawa. The detailed report should be out early in the year.

PORTLAND CANAL (PROPER) SECTION.

Outsider Group.

This area consists of the country bordering Portland canal on the east, from the mouth of the canal to its head at Stewart, and need not be confused with the Portland Canal Division. (See 1918 Report, page 73.) This group consists of eight claims—*Elsie*, *Tunnel Frac.*, *Copper King*, *Regina*, *Hope*, *Brown*, *Summit*, and *Constance Frac.*—situated at Maple bay, about 35 miles down the canal from Stewart. The property was operated in 1905 and 1906, known then as the *Brown-Alaska*, shipping several thousand tons of 2.8-per-cent. copper ore to the Hadley smelter on Kasaan peninsula, Prince of Wales island. It is now owned by Martin Woldson and associates, of Spokane, Wash. They have done a considerable amount of work, driving the lower tunnel along the foot-wall of the vein for about 700 feet and running six crosscuts to the hanging-wall. (*See* sketch accompanying this report.) This tunnel is 175 feet vertically lower than the main tunnel from which the ore



was shipped, and in it the vein is shown to be from 8 to 16 feet wide, fairly well mineralized with pyrrhotite and chalcopyrite. The central portion of the vein is sparingly mineralized, while the walls, and especially the foot-wall, show a better grade of ore. There is probably 3 feet on the walls that will assay from 3 to 5 per cent. copper, but the whole vein would average probably less than 2 per cent. There is a small gold and silver content, a 5-per-cent. copper ore carrying from 60 cents to $1 in gold and silver values. The last 400 feet to the face shows a strong, well-defined vein in which will be found lenses of good ore along the foot-wall.

As shown in the sketch, nearly all the ore has been stoped out above the main tunnel to the surface. There is some ore left on either end of the stope; the outside end near the portal would yield a small tonnage through to the surface. The inside end shows 3 feet in width on the foot-wall, assaying 5 per cent. copper and 1.2 oz. silver to the ton, and might produce considerable tonnage, though the back of the stope for the last 50 feet shows the vein to have pinched down to about a foot of ore, of very good grade, however. A raise from the inside end of the stope on this level or a winze sunk on the ore showing in the west tunnel would give good information. Beyond the stope the vein seems to break up and only an occasional patch of ore can be seen.

The west tunnel has been opened up by a crosscut from the surface to the vein, a distance of 150 feet. The vein was then drifted on, 150 feet south and 400 feet north, exposing an ore-shoot 350 feet in length. The ore taken out in development was evidently shipped, as there are remnants of a tramway from the mouth of the tunnel around the hill to the old workings, from which the ore was lowered to the bunker, at the head of the aerial tramway, to the beach.

At an elevation of 2,100 feet, 900 feet above the west tunnel, there is a big outcropping of the same class of ore. It has been stripped for a length of 300 feet and shows an average width of about 10 feet. The surface is a decomposed, honeycombed quartz which, broken into, shows the same mineral content as the vein below. This is supposed to be another vein east of the one developed below.

Maple Bay Groups.

These groups, consisting of some twenty-two claims and fractions, situated at Maple bay, adjoining the *Outsider* group on the south, are owned by the original stakers, W. Noble, of Stewart, and associates. They are some of the oldest stakings in the Portland Canal Mining Division. The property was under option to the Granby Company three or four years ago, who put in a wharf, installed a compressor at the beach, put up about a mile of tramway from the beach to the tunnel, and drove a tunnel on the *Star* claim nearly 700 feet long. It is at an elevation of 375 feet; a tunnel was driven on the lower extension of the *Outsider* vein to within a short distance of the *Regina* end line, one of the *Outsider* group of claims.

The first ore-shoot is about 200 feet long from the mouth of the tunnel, but, as very little depth was obtained, the tonnage available to the surface was small. Some ore was extracted farther along on the vein, but work was finally discontinued and the plant, including the dock and tramway, was dismantled. No work was done on any of the showings on the upper claims of the group.

The trail to the higher showings branches from the wagon-road a little way above the point where the road crosses the *Star* tramway. The road starts from the beach, just south of the *Outsider* ore-bunker. The trail strikes across the flat to the creek, which it follows a short distance, then turns to the left and zigzags up the side-hill. It is badly overgrown across the flat, but is in good repair up the hill to the old camp on the claims at an elevation of 1,700 feet. From the cabin there is a trail along the side-hill, crossing the creek just below the canyon, to the showing on the *Thistle* and *Rose* claims, at 2,100 feet elevation. This vein, striking N. 10° W. (mag.) and dipping slightly to the west, has been exposed along the hill by stripping at intervals for a distance of several hundred feet. It is quartz up to 20 feet in width, lying in a greenstone formation, and sparingly mineralized throughout with pyrrhotite and chalcopyrite, with apparently a foot or two of better-grade ore on the hanging-wall. One exposure shows a lens of ore about 100 feet long and 10 feet in the widest place that I should judge would assay from 4 to 5 per cent. copper. A crosscut tunnel was driven, at 2,000 feet elevation, 175 feet through the greenstone country-rock to cut the vein, but the only showing in it is a 3-foot vein of barren quartz in the face and a few quartz stringers cutting across the tunnel. I think the tunnel should be extended a little to be sure that the vein exposed on the surface has been cut.

Above this vein another parallel quartz vein has been exposed on the *Anaconda* mineral claim. It has been stripped in five or six places and consists of a siliceous rock in which are lenses of mineralized quartz and small lenses and bunches of iron and copper sulphides. Considerable honeycombed quartz shows, probably an indication of sulphides below the surface. It is not so promising-looking as the *Thistle-Rose* vein.

To the east of this about 150 feet, and also on the *Anaconda* claim, another parallel vein has been traced for 300 or 400 feet by several open-cuts. It is shown to have a width of about 8 feet of fairly well-mineralized quartz. Its strike would indicate that it joins the big vein found on the *Princess May* claim farther up the hill.

Continuing up the hill to the croppings along the north side of the canyon on the *Princess May* claim, there is exposed a vein of quartz, 25 feet or more wide, which has been traced with open-cuts for about 1,000 feet up the hill. The lower cropping is at 2,900 feet elevation and the highest at 3,400 feet. The vein varies in width from 8 to 25 feet and has about the same mineral contents as the other veins on the property. Some good-grade chalcopyrite was noted on cross-slips cutting the vein at right angles.

From the *Princess May* showing it is about 2,500 feet north along the side-hill, at about the same elevation, to the outcrops on the *Eagle* and *May Queen* claims. A quartz vein about 20 feet wide is exposed along the north wall of a deep canyon in a country-rock of greenstone. The vein strikes N. 50° E. (mag.) and dips from 40° to 60° N. The vein is exposed for a distance of about 250 feet and is composed mainly of honeycombed quartz. Though no work has been done on it, it is a very promising-looking showing, for no doubt a little depth on this honeycombed quartz will find heavy sulphides. There is some enclosed greenstones in the vein and consider-

able residual limonite. It will be rather difficult to attack, since it lies in the bottom of a deep canyon with steep walls.

East of this vein and on the east wall of a small creek flowing into the canyon is a 6-foot quartz vein that will average from 5 to 6 per cent. copper. It parallels the 20-foot vein, but stands vertically, and may therefore be an offshoot from the larger vein. It seems to pinch out to the west across the canyon, but shows about 100 feet farther to the east. Though I did not follow it any farther up, it is said to be exposed in places for several hundred feet, showing in one place a width of 12 feet of 2.5-per-cent. copper and in another place 6 feet of solid sulphides. These showings on the *Eagle* and *May Queen* are the most promising on the property.

Altogether, there is apparently plenty of ore of about 2-per-cent. copper on the surface, and no doubt shoots and lenses of shipping-grade ore would be found in drifting on the different veins. Their situation is very favourable for mining and transportation.

Swamp Point.—The lime-quarries here, owned by the Granby Consolidated Mining, Smelting, and Power Company, are being operated on a comparatively small scale. Bert Wing is furnishing the necessary tonnage on contract.

B.C. Verde Group.

There are eight claims in this group, owned by H. McGuire, of Stewart. They are situated at the head of Bulldog creek, which flows into Portland canal about 6 miles below Stewart, and are at an elevation of 3,300 feet. The trail from the beach goes "straight up" from the mouth of the creek, where there is a small cove very convenient for a landing-place. The property is therefore very accessible and ideally located from a mining and transportation standpoint, the only requirement for the latter being an aerial tramway about 2 miles long from the workings to ore-bunkers on tide-water. From the point of loading to the Granby smelter at Anyox is about 120 miles of inside waterway suitable for scow-haulage. Transportation and treatment therefore offer no difficulties.

The claims were staked last fall and consequently the amount of work done is limited. The showings consist of siliceous lenses, mineralized with pyrrhotite and chalcopyrite, occurring as replacements in a grey andesite, mainly along the contact of the andesite with Coast Range granite. On account of the flat nature of the ground and the consequent heavy overburden of moss and muskeg, all exposures must be made by stripping and open-cutting. As the work so far consists only of a few open-cuts, none of the lenses have been sufficiently exposed to demonstrate their size.

At one point on the contact an open-cut shows a width of 10 feet of quartz fairly well mineralized with pyrrhotite and a little chalcopyrite. South of this, on the west side of a small lake, another shallow cut exposes a width of about 3 feet of fair-looking ore, across which a sample assayed 80 cents in gold and 3.4 oz. in silver to the ton and 1.5 per cent. copper.

The rock formation is locally very favourable for the occurrence of this class of ore, the surface silver values especially being encouraging. Further work in stripping, open-cutting, and sinking is warranted by the surface indications. Everything considered, the property is worth investigating.

Iron Cap Group.—This group consists of six claims adjoining the *B.C. Verde* group and also owned by H. McGuire. No work has been done on them.

Fraser Group.—There are two claims in this group, owned by George Fraser, and adjoining the two preceding groups. These have been recently staked and no work done on them.

Marmot River Section.

(*See* Minister of Mines' Report, 1919.) The Marmot river flows into Portland canal on the east side, about 4 miles below Stewart, from which it is reached by boat. Substantial assistance for trails was given by the Department of Mines during the year, and the section is one of the most accessible in the Division, though small in area.

The Coast Range granites extend up the river for about 3 miles, or about the mouth of the South fork, and beyond this is the Contact Belt. Judging from the several showings of high-grade ore, it looks as if this area would develop a number of small shippers of high-grade silver and gold ore, and the section is therefore very suitable for leasing and individual operating. It has been very active this year and gives good promise.

Patricia Group.

H. C. Magee, of Stewart, and Vancouver associates own this group of claims. It is composed of the *Patricia*, *Silver Link*, *Pat*, *Iron Mask*, and *Monarch*, and is situated on the north side of the main branch of the river, about 4 miles

from tidewater, from which there is a good pack-trail to the camp. At an elevation of 1,600 feet, about 500 feet above the camp, a tunnel has been driven 40 feet (October 4th) at the foot of a bluff, following a small quartz vein in solid granodiorite country-rock. The vein strikes N. 15° W. (mag.), stands about perpendicularly, and is from 6 inches to 1 foot in width. It is composed of quartz, galena, and pyrite, varying from slightly mineralized quartz to solid sulphide. The chief value is in gold, the galena carrying very little silver, and the best ore is a mixture of galena and pyrite, ranging up to $90 to the ton, of which $80 is gold.

At the mouth of the tunnel, which has been widened out to about 10 feet, for a length of 10 or 12 feet, for a blacksmith-shop, the vein lies on the east side and extends up to a slip near the top of the tunnel. This slip cuts diagonally down and across the tunnel and apparently throws the vein to the west 5 or 6 feet. The vein is on the west side of the tunnel from the inside of the shop to the face and has been left standing except for the last few feet at the face, which shows about 8 inches of solid sulphides in the bottom, the upper portion being more siliceous. Since my examination the tunnel has been driven 10 feet farther, showing about the same vein. It has been exposed on the surface in the bluffs above the tunnel about 20 feet beyond the mouth of the tunnel, showing a width of about 2 feet of mixed quartz and sulphide. The favourable situation of the property for mining and transportation should make this ore profitable to work on a small scale.

Mr. Magee informed me that there is a large mineralized belt high up in the bluffs striking at about right angles to the small vein, and therefore probably along the granite-contact. Samples from this belt assaying 200 oz. in silver to the ton have been obtained on the surface. He estimates that the present tunnel would encounter this belt in about 500 feet.

Mr. Magee is one of the first prospectors in the Marmot River section and certainly is deserving of credit for the amount of exploration and development work he has done.

Montana Group. There are seven claims in this group, lying north of the *Patricia* and owned by H. C. Magee and George Bruggy, of Alice Arm. The property was under lease and bond last year to the British Columbia Exploration Company, Limited, which did a little desultory work and obtained an extension of time on the bond. However, nothing further seems to have been done by this company. Shipments of a few tons of high-grade silver ore have been made from time to time, and it would therefore seem that further exploration and development of the property would be warranted.

Engineer Group. There are three claims in this group—*Engineer No. 1, Engineer No. 2,* and a fraction (name unknown). They are owned by George Bunn and Robert Stewart and situated on the east side of Marmot River glacier. They are reached by a pack-trail from the beach to the north side of the glacier; then across the glacier, which is good going for horses, to the mouth of the creek out of Magee pass, a total distance from tide-water of about 7 miles.

The work done by the owners this year consists of a 6-foot tunnel at an elevation of 2,650 feet, driven in on a brecciated vein of quartz and slate. The vein strikes S. 65° E. (mag.) into the hill and dips about 80° E. It is from 6 to 8 feet in width and fairly mineralized throughout with pyrite and chalcopyrite, with a foot of heavily pyritized quartz on the hanging-wall. It has not been traced on the surface beyond the tunnel. The country-rock is an altered sedimentary, apparently very close to the Coast granites. Judging from the amount of red and green andesite float along the north shore of the glacier, there must be a great mass of it higher up or many intrusions through the sedimentaries. This one exposure on the property looks very encouraging, but further work is necessary before attempting any conclusions as to its possibilities.

Prince George Group. This group consists of eight claims—*Prince George, Prince George No. 1, Prince George No. 2, Prince George No. 3, Prince George No. 4, Buena Vista, New Strike,* and *Cussedness Fraction.* They are owned by Woods, Newey, Donald, McNicholl, *et al.,* and situated on both sides of Magee pass, about half a mile up from the north side from Marmot River glacier. At present there is nothing but a goat-trail from the glacier up, skirting the canyon, and it will therefore be difficult to do much development-work until such time as a pack-trail is provided. There should be a trail built from the glacier to serve this group, the *Engineer* group below, the *Washington* group above, and other claims farther up the pass. It would require about 2 miles of trail, which would not be difficult to build. The two claims, *Buena Vista* and *New Strike,* lie on the south side of the pass in granite formation; the balance of the claims on the north side in the Contact Belt.

The only work done on the claims is on the *New Strike* and consists of a few shallow open-cuts put in along the bottom of a narrow, steep gulch possibly formed by the erosion of the softer vein material. These exposures are at 3,550 feet elevation, about 500 feet above the tent-camp site. They show the vein to vary from a seam in the granite to 4 feet in width of heavily pyritized quartz, showing some chalcopyrite and, in places, galena and zinc-blende. One cut discloses 1 foot of solid pyrite and 1 foot of pyritized quartz, the whole running probably 1 per cent. copper. It strikes S. 30° W. (mag.) into the hill and away from the contact and dips 65° W., showing a well-defined foot-wall.

The main values are in gold, the heavier mineralized quartz assaying up to $40 a ton; silver values run up to 10 or 12 oz., with additional values in lead in places. With improved transportation facilities this grade of ore could be made to pay, and the showing therefore warrants further development to determine whether the quantity and quality of the ore are sufficient to mine profitably.

Washington Group.

This group consists of several mineral claims, owned by R. E. Lundvall, of Hyder, Alaska, and Donald, Woods & Newey. The claims comprising the group are *Ellen*, *Ruth*, *Vivian*, *Carrie*, *Black Bear*, *Black Bear No. 1*, and *Castle Hill*, situated north of and adjoining the *Prince George* group and on the north side of Magee pass. The pass or gulch is evidently along the line of contact of the Coast granites with the interior sedimentaries, and the north side is therefore composed of highly altered rock. The country in this vicinity is badly broken up and distorted, probably accounting for the values found in so many different places.

One of the owners, Mr. Lundvall, drove a tunnel 80 feet during the year at an elevation of 3,950 feet, about 1,000 feet above the bottom of the gulch. The tunnel shows argillite, schist, and the face is now in what appears to be quartz porphyry, in which are small veinlets of quartz and iron sulphides. Values were found at different places along the tunnel.

Above the tunnel there are a number of oxidized-iron croppings showing diagonally up the hill. No work of any amount has been done on these, and it is a question whether they are formed from the surface oxidization of the mineral underneath or deposited from surface seepage of iron-impregnated water following down the crevices of the rock. If the tunnel was continued a short distance it would get under these croppings and prove whether or not there is mineral at depth.

Farther up the pass is glacier-filled, with the rock exposed along the banks. Some good-grade silver ore has been found and several well-defined veins have been traced for considerable distances, but the summer season is so short, transportation and every condition for mining so difficult, that little attention has been given them. A pack-trail from the south side of the Marmot glacier could be built by switch-backing up through the canyon to the present camp-site at 3,000 feet elevation, and is very necessary for the prospecting and development of this area.

Fraser Group.

This group is situated on the North fork of the Marmot river, about 3 miles up from the forks. There are seven claims in the group, owned by William Fraser, of Stewart. The area covered by the claims seems to be a mass of pyritized rock, so weathered and oxidized that the bluffs and rock-exposures are stained red and yellow across a width of probably 1,000 feet. What little work has been done shows a few quartz veins, mineralized with pyrrhotite, arsenopyrite, and traces of chalcopyrite, especially along the weathered seams, and said to carry fair gold and silver values. Its general appearance certainly invites prospecting and exploration. I am informed that a lease and bond has been taken on the property by Eastern interests.

North Fork Basin Group.—The owners, Fraser, Wood & Magee, of Stewart, will, with the improvement of the trail this season, now be enabled to make shipments of their high-grade silver ore.

Idaho Group.

This group consists of eight claims—*Gem of the Mountain*, *Lucille*, *Never Sweat*, *Prickly Heat*, *Nettie L.*, *Sunday*, *Slide*, and *Perseverance*—owned by Clay Porter, George Mehlfeld, J. McCallum, and Lee Levine, the latter two each owning a half-claim. The claims are situated about 4 miles up the North fork of the Marmot river, on the west side of the glacier, about 1,000 feet above it, and 4,000 feet above sea-level. Heretofore the property has been reached by following a North Fork trail to a short distance above the Government cabin, and from there up the glacier to a point at the bottom of the gulch below the camp. I understand that the trail was extended up the east bank of

the glacier to a point opposite the camp this fall, which will admit of pack-horses being taken from the beach to the end of the trail, and from there across the glacier about a mile to the foot of the hill. From this point a switchback trail can easily be built up to the camp. Ore can be lowered from the tunnel to the glacier, sledded across the glacier, and packed to the beach, a distance of 6 or 7 miles.

At an elevation of 4,000 feet the owners have driven a tunnel 80 feet during the past season, of which the first 40 feet had to be timbered. This follows a small seam of oxides, in which are small kidneys of galena carrying high silver values. The main vein was encountered at 80 feet and drifted on for about 10 feet at the time I was on the property, October 6th. This vein strikes N. 60° E. (mag.) and dips into the hill about 45° N. It consists of siliceous material about 2 feet in width, lying in the prevailing country-rock at this elevation of andesite schist. On the foot-wall there is about 6 inches in width, in which are lenses of galena carrying silver sulphides, probably stephanite, assaying from 400 to 1,950 oz. to the ton in silver; the balance of the vein of 18 inches is a siliceous rock mineralized with fine-grained iron pyrites and probably silver sulphide, though none were seen in hand samples, assaying from 300 to 400 oz. to the ton in silver. The owners were sacking ore, but I believe did not get any shipped before winter necessitated closing down the work.

Porter and Mehlfeld, who were on the property, stated that they had discovered several small parallel veins of similar high-grade ore above the tunnel, and two large veins of quartz carrying grey-copper, resembling the *Silverado* veins, on the Portland Canal side of the summit and at no great distance from the *Idaho* group.

The values in and size of the showing on which they are working are certainly very promising for profitable mining, and altogether the owners are very optimistic of the probabilities of their holdings. They surely deserve credit and success for the work they have accomplished under most discouraging conditions.

North Fork Basin.—This basin is of limited area and has been practically entirely staked. With a good trail it is very accessible and handy from the beach and justifies very close, thorough prospecting for the characteristically small high-grade veins.

Bear River Section.

(*See* the contour and mining property map of Bear, Salmon, and Marmot Rivers sections accompanying this report.) The reader is also referred for geological data to Memoir No. 32, by R. G. McConnell, published by and obtainable from the Geological Survey of Canada, Ottawa. This is one of the important sections of the North-western District and includes all the country north of the head of Portland canal, tributary to the Bear river, to Bear River divide.

The Portland Canal Short Line Railway extends from Stewart to the *Red Cliff* mine, 14 miles up the valley, and there is also a fair wagon-road covering the same distance; from there on a good pack-trail extends over the divide to the Groundhog coalfields. It was realized when the railway was built that this valley, with its low divide at the head of Bear river, is the logical outlet for all the northern interior part of the Province lying east of the Alaska strip, and doubtless it will some day be utilized for that purpose.

It so happens that the break in the Coast range occupied by Portland canal and its extensions, the Salmon and Bear River valleys, throws a portion of the Eastern Contact Belt, about 20 miles long, on the Pacific slope, but there are about 60 miles north of this break to the Iskut river of the same mineral-belt lying on the interior or eastern slope of the range and only accessible by way of the Bear River valley. A start should be made toward the exploration of this belt by starting a trail, branching from the Bear River trail on the other side of the divide, northwards along the eastern slope on the mineral zone.

Mining, so far as outside operators were concerned, was at a standstill in this section until the Silverado Mining Company started, but much prospecting and developing was done during the year by property-owners. It is hoped that improved money conditions will enable the smaller mining operators to take over and develop some of the promising propects of the section. Apparently, the larger companies are content to wait and pay for a developed property rather than take a chance on developing a mine from a prospect.

Silverado Group. The Silverado Mining Company, Limited, was incorporated in October, 1921, with a capitalization of $200,000, divided into 2,000 shares; the head office of the company is in the Vancouver Block, Vancouver. The company's holdings consist of the *Silverado* group of five claims—*Silverado No. 1, Silverado No. 2, Silverado No. 3,*

Rainier Bluff Fraction, and *Silver Bell No. 4*. They are situated on the east side of the mouth of Bear river, just south of the glacier opposite the town of Stewart, at an elevation of about 4,000 feet. The group was staked and owned by John Haahti and J. W. Stewart, of Stewart.

The property was acquired by J. J. Coughlan, of Vancouver, in August, and work started in the latter part of that month. Previous to this it had been under lease to Haahti & Peterson, who had driven a tunnel 30 feet long and done some little stoping, extracting about 15 tons of ore. This was sorted to two grades, the first class being a clean grey-copper assaying over 600 oz. to the ton in silver and the second grade assaying between 250 and 300 oz. to the ton in silver. The vein as exposed by this work, as well as the cropping along the bluff, is from 6 to 18 inches wide and lies horizontally in grey andesite country-rock. The gangue is quartz uniformly well mineralized with grey-copper and pyrite, the former predominating, and averaging better than 125 oz. to the ton in silver. The pure grey-copper assays about 1,000 oz. to the ton in silver. This small vein is exposed for a length of 200 feet or more along the base of the bluff at 4,200 feet elevation, and, judging from the quantity and quality of ore extracted, there is probably over $35,000 worth of ore exposed.

A small shipment of ore was made in 1921; 5 tons of "low grade" gave an assay of 299.36 oz. of silver to the ton and 3.62 per cent. of copper; 2 tons of "high grade" or hand-sorted grey-copper assayed 696.6 oz. of silver to the ton and 7.76 per cent. copper.

Since the present owners took over the property a great deal of outside work has been done under most unfavourable weather conditions. A trail about 5 miles in length was built from the east bank of Bear river to the upper camp at 3,850 feet elevation. Camps were established at 1,700 and 3,850 feet elevations as terminals of a tramway, the upper terminal camp to be utilized later for the mine camp. A 2-bucket tramway nearly a mile in length was constructed and the upper terminal connected with the tunnel by a single-cable tram about 1,000 feet in length. Ore can therefore be lowered to the lower camp, from which point it will be rawhided to the beach.

It was realized that a complete tram from the mine to tide-water could not be built in the limited time before winter; consequently the upper portion only, covering ground that will be impossible for winter transportation with horses, was built this season. It will very probably be completed to the beach next season.

There are two large, almost vertical, veins above the small flat one now being worked which can be attacked for development around the north side of the hill on a level with the present tunnel. These veins are from 3 to 6 feet wide and consist of quartz well mineralized with grey-copper and pyrite. On account of a light snowfall I was unable to see them, but from a description I judge that they will very probably develop a sufficient tonnage of good-grade milling-ore to justify the erection of a milling plant. The property has, with the small high-grade vein paying its way, a very favourable chance of becoming an important producer.

Mobile Group. This group is owned by H. P. Gibson and Louis Legge, of Stewart, and Al. Harris, of Vancouver. It consists of four claims, situated at an elevation of 3,700 feet on the east side of Bear river, just south of the claims of the Portland Canal Mining Company. The showings are reached by the old Portland Canal mine-trail, passing the mine camp and continuing on up the hill for less than a mile. There is a splendid camp-site right at the showings, with plenty of timber for cabins and fuel.

No development-work has been done other than the necessary yearly assessments, consisting only of open-cuts and stripping, the greatest depth obtained being about 10 feet. The lowest cut is at 3,700 feet elevation and the highest at about 4,000 feet, tracing the vein several hundred feet on the surface. Fair depth could be obtained by drifting on the vein from the lowest cut, or even greater depth by tracing the vein farther down the hill to start a drift. The cuts show an oxidized width up to 6 feet, in which are ribs of quartz and slate with quartz through it up to 24 inches wide. The quartz is mineralized with pyrite, galena, and zinc-blende, and carries varying amounts of grey-copper, argentite, and ruby-silver. The general rock formation is argillite (McConnell's "Bitter Creek formation") and its contact with the greenstones cannot be a great distance down the hill. The mineralization appears to be a sheared zone in the argillite, replaced by bands of quartz for a width of from a few inches to 24 inches, the balance of the vein being an oxidization through the soft, sheared material. I do not think that quartz for the full width of the shear may be expected.

Tide Lake, on Salmon-Nass Rivers Divide.

Mitre Mountain, on Salmon-Nass Rivers Divide.

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The solid quartz, varying from 4 to 8 or 10 inches wide, carries the values, and not the quartz found as stringers in the slate. A sample of three or four pieces of quartz from about 4 inches of width in the lowest showing, mineralized with pyrite and a little galena and grey-copper, assayed 103.4 oz. in silver to the ton. An average sample from several cuts, representing ore that would be sorted out and shipped, and varying from 4 to 10 inches in width, gave assays of $2.80 in gold and 314 oz. in silver to the ton, 11 per cent. lead, and 4 per cent. zinc. A persistent streak of a few inches in width of this grade of ore could be mined profitably. The vein could be worked in as many places as desired on the surface, taking out the ore to a depth convenient for handling; at the same time a drift could be run on the vein at a lower level to determine what the conditions were at depth.

A trail could be easily built from the Portland Canal mine trail and the ore packed on horses down to the wagon-road at the Portland Canal concentrator, and from there hauled to the dock for shipment, a distance of about 5 miles. If the ore developed sufficient tonnage an auxiliary tram could be run from the workings down to the head of the Portland Canal tram, and this latter utilized to take the ore to the wagon-road at the lower terminal. The propery might make a very profitable little shipper.

Dandy Group. This group consists of four claims—*Dandy No. 1, Dandy No. 2, Star No. 1,* and *Star No. 2*—the first two being restakings of two of the claims of the old *Main Reef* group. The owner is Heine Horstman, of Stewart. The claims are situated on the east side of Bear river, about half-way between Glacier and Bitter creeks, at an elevation of 1,600 feet. There is a good trail to the old camp from the Bear River wagon-road, passing the *Tyee* cabin at 425 feet elevation and the *Mayflower* camp at 900 feet elevation.

The vein on the *Dandy* claims is about 4 feet wide, of broken-up argillite crossed with small quartz stringers, with a continuous small vein of quartz on the hanging-wall mineralized with zinc-blende and galena, principally the former. It lies in argillite country-rock on top of a greenish porphyry dyke about 40 feet wide. It strikes N. 30° W. (mag.) and dips 63° W., conforming with the strike and dip of the dyke.

The vein cuts diagonally across the creek and here shows only a seam of ore on the hanging-wall containing very little values. On the west side of the creek a tunnel was driven a considerable distance in the early days, but the mouth of it is now blocked up by a jam of debris in the creek, which has piled the creek-gravel over the top of the tunnel. This tunnel could not have gained much depth in a couple of hundred feet, as the surface above does not rise very rapidly. A shaft is said to have been sunk to a depth of 40 feet just inside the mouth of the tunnel, following a shoot of good ore from 12 to 14 inches wide all the way down, but I doubt it from the appearance of the rest of the vein exposed. However, it would not be a difficult undertaking to clear out the creek and get into the tunnel to unwater the winze. If there is a foot of $75 ore, or even less, in the shaft, it will pay to mine and ship, as it is not over 2 miles down to the wagon-road and a 6-mile haul from there to the dock.

Tyee. This is one of the old properties worked on in the early days of the camp and is owned by Jim McKay and Charlie Bibeau, of Stewart. A shaft was sunk about 40 feet on a heavily pyritized vein, about 4 feet wide, of quartz and altered granite occurring in a granite stock. The ore carries some gold and silver values, but not enough to ship. The sulphides are too heavy to admit of sufficient concentration to raise the values to a shipping grade. A crosscut tunnel is now being driven by the owners to cut the vein, I should judge, a little lower than the bottom of the shaft and some distance to the north.

Evening Sun and Columbia. These claims were reported on in 1919, since which time, W. W. Rush, the owner, has been working on them each season. I did not get up to them this year, but Mr. Rush informed me that he is continuing the tunnel on the *Evening Sun* claim, and that conditions have not materially changed since the last examination was made.

Excelsior and Eagle. These claims belong to W. W. Rush, of Stewart, and A. Baggs, and were also reported on in the Minister of Mines' Report of 1919, page 72. Mr. Rush was working on the claims this summer, driving a tunnel on what he calls the "spur" vein. This is now in about 30 feet, with high-grade ore up to a foot in width all the way. A depth of 25 or 30 feet has been gained at the face.

Other Claims.—Nothing new is reported on the *Lakeview*, *Sunshine*, and *L. & L.* groups, described in the 1919 Report; the *Ruth and Francis* claims, in 1918 Report; or the *Dunwell*, in 1920 Report.

L.L. & H. Group. This group was under bond to Charles Tubman, of Victoria, last year, and was briefly described in last year's report. This year Mr. Tubman found it impossible to finance further work and the property was returned to the owner, Jack Harkley, of Stewart. Mr. Harkley and two men are working on the property all this winter, driving the crosscut tunnel ahead for the purpose of cutting all the veins exposed on the surface. No information is available as to the results of the work to date.

George Copper-mines.—Further work was done by the owners this year, mostly in trail-building. The property has been fully described in former reports.

Red Top Group. This group was reported on last year, when it was under bond to G. Seiffert, of Seattle. He was, however, unable to go ahead with the work this spring and the bond lapsed, the property reverting to the owners, J. McNeil and J. J. Connors. They have been working, continuing the lower tunnel near the cabin, which Mr. Seiffert had driven 132 feet toward crosscutting a surface exposure of copper ore. Nothing is known as to the outcome of this season's work.

Vetron and Comet Groups.—Yearly assessments were done by the owners, Ben Erickson and W. Forrest. The reader is referred to last year's report for descriptions of the property.

Red Cliff Group. The property of the Red Cliff Mining Company, Limited, was purchased in the spring by R. W. Wood and associates. This summer a small crew under the supervision of R. L. Clothier, of Stewart, did some surface work on the showings on the upper claims. Values, however, did not prove encouraging and work was discontinued.

Independent Group. (*See* 1919 Report.) This group is situated on Goose creek and consists of six claims, owned by Sam and Jack Fitzgerald, of Stewart. Last year the property was under option to the Algunican Development Company, a Belgian syndicate under the local management of W. A. Maloche, which has since become defunct. This company put a diamond-drill on the ground and drilled two holes totalling 508 feet. The drill-station was about 120 feet south of the vein exposed on the surface by an open-cut. The vein strikes N. 65° to 70° W. (mag.) and dips 70° to 75° S.W. toward the drill-station. The first hole, 240 feet deep, was on a bearing of N. 7° W. at a declination of 31°, and would therefore intersect the vein at about 150 feet from the collar and at a depth of about 100 feet on the vein. The ground proved soft or broken up at this point and a very poor core was obtained and values were reported low. The other hole was 268 feet deep, flat, and on a bearing of N. 45° W. (mag.), and therefore was about 75 feet from the vein when stopped.

This year's work was done lower down the hill at 1,750 feet elevation, about 1,400 feet below the cut on the vein near the drill-station, and consists of a tunnel driven 25 feet, intersecting a vein seen cropping above. The face had just reached the vein, and a small sample taken therefrom gave a trace of gold and 3 oz. in silver to the ton and 1.5 per cent. copper. The vein is quartz showing considerable chalcopyrite and pyrite in places. The country-rock is andesite.

At an elevation of 3,150 feet, the level of the drill-station, the open-cut on the vein has exposed it for its full width of 14 feet. Across the face of the cut, which is about 10 feet high, the main portion of the vein is shown to be about 5 feet wide and to occupy the centre of the vein. This portion is heavily pyritized quartz, with some galena and zinc-blende, in which the principal values are silver, with a little gold. On the hanging-wall side of this is a small basic dyke about a foot wide, and bordering the quartz and dyke on each side is a siliceous rock in which are bands of quartz and a reddish, jaspery-looking quartz, also heavily mineralized with pyrite, and traces of galena and zinc-blende. The mineralization is much stronger in the bottom of the cut. Average values of $12 a ton are claimed across the whole 14 feet.

Farther up the hill at 3,500 feet elevation an open-cut has been driven on a vein about 8 feet wide, with a porphyritic dyke showing on the foot-wall. This vein strikes N. 65° W. (mag.), stands about perpendicularly, and is thought to be the same as disclosed in the 3,150-foot open-cut. The gangue is a mixture of quartz, calcite, and the reddish quartz resembling jasper, the same as in the cut below, contains considerable pyrite and traces of galena, and is

claimed to assay $10 to the ton in gold and silver across the 8 feet. Judging from the sulphide contents, the ore would concentrate from 10 to 15 into 1. The gangue here has a marked resemblance to the *Toric* vein, in the Kitsault River section, in the same rock formation—andesite.

Farther up the hill, probably 75 feet, and to the north of the last showing (apparently a dyke intervening) is another showing about 20 feet wide of the same kind of vein-filling. Only a couple of shots have been put in here, but the freshly broken rock shows about the same mineralization as in the previous cut. A sample of a number of pieces broken out by the shots assayed 80 cents in gold and 28 oz. in silver to the ton and a trace of copper. With their fair silver values for the surface, these upper showings look very promising to me and I would confine future work to them rather than to the tunnel or cuts below.

M.C. Group. This group was staked last fall by C. A. Mackenzie, of Victoria, and consists of the following six claims: *M.C.*, *M.C. No. 1*, *Britain*, *Britain No. 1*, *Nine of Hearts*, and *Nine of Hearts No. 1*. They are situated on the crest of Bear River ridge, beyond the *Prince John* group, at an elevation of about 6,000 feet. There were two or three men working on the claims for a time this summer, but as there was no one there at the time I was in the section I did not get up to them. I have no information as to the showings, work, etc.

Prince John Group. (*See* Report of 1919.) This property is situated on the west bank of Bear river, about 5 miles above Stewart, and is owned by J. Nesbitt and Andy Archie. There has been considerable work done on the claims by way of open-cuts, stripping, and crosscut tunnel at 2,350 feet elevation, driven 185 feet across the formation. The cross-section exposed in the tunnel shows 35 feet of greenstone-schist from the portal; then 45 feet of banded slate mineralized with pyrite and chalcopyrite, disseminated in grains throughout the slate, and in small veins and bunches along the bedding-planes and cross-fractures; then 45 feet of a light-grey acidic dyke; and beyond that 65 feet of slightly mineralized slate to the face. The 45-foot section of ore would probably average about 2 per cent. copper and $1 to the ton in gold and silver values.

Some further surface work was done this summer by Mr. Nesbitt and some beautiful specimens of free gold found. It occurs in the banded slate, in which the sulphides have been decomposed and replaced with a spongy gold. I tried to get up to see the work, but on account of high water we were unable to get along the river-bank.

This and all the claims along the west side of Bear river, from the Government bridge to Bitter creek, have always been badly handicapped in having no trail along that side of the river.

Bayview group was reported on last year and nothing has been done on it this year.

Salmon River Section.

This portion of the Portland Canal Mining Division is the drainage-basin of the Salmon river in British Columbia, and represents about 7 miles in length and about 60 square miles on the Eastern Contact Belt, which is here conveniently situated on the Pacific slope of the Coast range.

The area has been given a great deal of prominence by the remarkable development of the *Premier* mine, which has this year shipped about $1,750,000 worth of gold and silver, and, furthermore, has exposed ore valued at many more millions. This will undoubtedly guarantee the exploration and development of the remainder of the basin, in which there are many meritorious showings. It also gives an idea of the potentialities of that portion of the same mineral-belt extending 250 miles north to the boundary of the Province. This mineral-belt is one of the greatest assets of the Province, and it should be its endeavour to open it up wherever feasible by the construction of trails and roads and improvements to navigation.

In this Salmon River section the lower end of the basin is served by a wagon-road from Stewart to the *Premier* mine; beyond this is reached by trails, which have served their purpose for prospecting and partially developing the upper valleys. That area is now past the prospecting and hand-work stage and requires the extension of the wagon-road for another 5 or 6 miles to provide means of transportation for taking in machinery for more extensive development and taking out helpful shipments of high-grade ore showing on many of the properties. About 2 miles of this road was built two years ago and the continuation of this, even as a winter road, would be most useful. The present trails should be extended over the Salmon

River and Long Lake divides to the Nass slope, and thus enable prospectors to get supplies into that country and explore it with some degree of efficiency, and so extend the known mineral areas.

Outside of the operations of the Premier Company, the section has had a very quiet and uneventful year in mining. Though there has been a lot of individual work done, there has been no development of importance and few, if any, properties are in better condition than last year. The quiet year may, however, prove beneficial, in that it may do away with the inflated valuation placed on properties which are as yet only in the prospect stage in this and other sections where there has been a little mining activity in the past two or three years.

There are several properties on the Alaskan side of the boundary, both in the Fish Creek basin and on the east side of the Salmon River valley, that have had an appreciable amount of development during the year and are reported to have the ear-marks of becoming important producers.

It is worthy of mention that the Alaska Commission has definite plans regarding the construction of a wharf and approach at Hyder, and that appropriations have been made for this work and the completion of the Salmon River highway from Hyder to the boundary-line at 13-Mile.

S. J. Schofield, of the Geological Survey of Canada, in his Summary Report recently issued, divides the ore-deposits of this section into three main types—base-metal type, silver-gold type, and gold type. The following excerpts from his report give his conclusions on each type: "The usual mode of occurrence of this type (base-metal type) is that of replacement and dissemination in certain beds of tuffs and tufaceous conglomerates, though veins occur containing the base metals. The deposits are roughly tabular, since they correspond in strike and dip with the beds with which they are associated. The minerals present in these bands are pyrite, chalcopyrite, sphalerite, and galena in a gangue of quartz. Nearly all the examples of this type occur in the *Big Missouri* ridge. The alteration or metamorphism of the rocks on the *Big Missouri* ridge makes their determination very difficult, if not impossible in many cases, so that the contact between the quartz porphyry and the tuffs was not definitely recognized, and it is certain that over the greater part of the *Big Missouri* ridge this contact is buried underneath the tuffs and the tufaceous conglomerates.

"The ores of the silver-gold type occur in veins and vein-like replacements in quartz porphyry and at the contact of the porphyry and the tuffs. The large ore-shoots are lenticular in shape. The minerals present are pyrite, chalcopyrite, sphalerite, galena, tetrahedrite, freibergite, pyrargyrite, and other sulph-antimonides and sulph-arsenides, native silver, and gold. The gangue is rather abundant and almost entirely quartz. (The *Premier* is cited as an example of this type.)

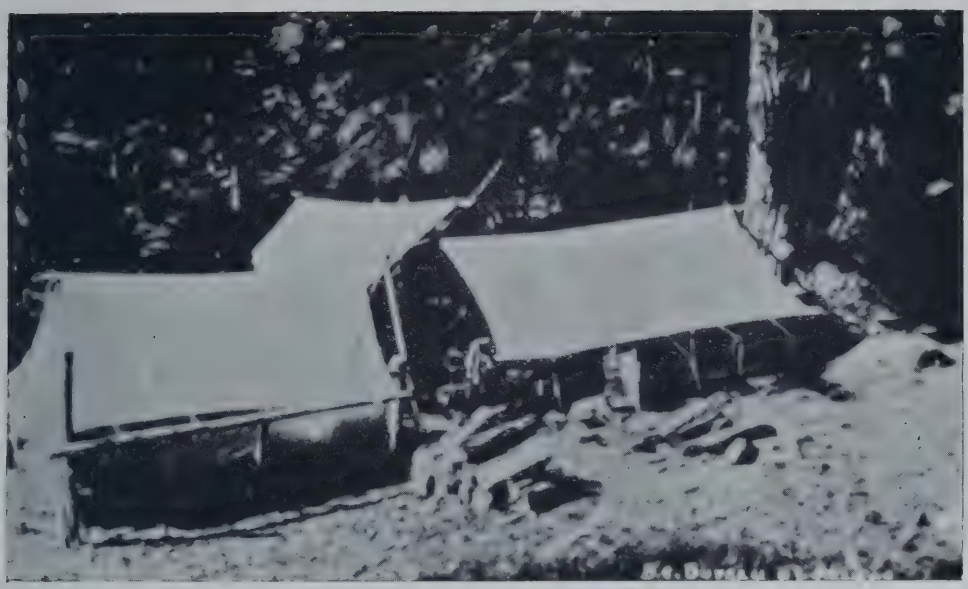
"A single ore-body in No. 2 tunnel of the *Premier* mine is of this type (gold type). This is a siliceous, heavy-sulphide deposit. Quartz and pyrite are the predominant minerals. Small quantities of chalcopyrite, sphalerite, and galena are present. Assays show high values in gold, but practically no silver.

"The ore-deposits fall into three main groups: (*a*) A low-grade, complex type, with values in the base metals, copper, lead, and zinc (*Big Missouri, Hercules, Forty-nine*, etc.); (*b*) a type rich in silver minerals, including tetrahedrite, freibergite, pyrargyrite, argentite, and in some cases native silver (*Premier, Silver Tip*, certain ore-bodies of the *Forty-nine, Big Missouri*, and *Mineral Hill*); (*c*) a pyritic siliceous type, with high gold values (an ore-body in the *Premier* mine).

"The most favourable associations for the occurrence of ore are as follows: (*a*) In the quartz porphyry; (*b*) at the contact of the quartz porphyry with the tuffs; (*c*) in certain beds of the tufaceous conglomerate.

"The slates in general do not appear favourable for the deposition of ore. The sulphides rich in silver, such as tetrahedrite, freibergite, argentite, and some of the pyrargyrite, are considered to be of primary origin and will continue in depth. The native silver is considered to be of secondary origin."

Several examinations were made during the season and two or three important deals are pending which, if successful, will mean a great deal to the development of the Salmon River section.



Premier Mine—First Camp of Discoverers, Bunting and Dilworth.

Premier Gold Mining Co.—Mill.

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Premier Gold Mining Co.

This company has this year accomplished a great deal in all the departments, mining, milling, surface equipment, and transportation, and the property has now reached the stage where there should be no more serious handicaps to interfere with maximum production. With the completion of the tramway from the mine to the beach the greatest difficulties have been overcome. Mining for the year consists of extensive development-work, about 4,000 feet, on all three working-levels. On the No. 1 level, at 2,000 feet elevation, the south vein was located by diamond-drilling, crosscuts run from the No. 1 tunnel, and the south stope opened up. It shows a length on this level of about 200 feet of the same lenticular character as the north vein and with like enrichments along the fault-seams. The greater portion of the ore shipped last winter and this summer, amounting to over 4,000 tons, was taken from below the No. 1 level on the north vein and above the No. 1 level on the south vein. On the No. 2 level, 1,750 feet elevation, a long crosscut and drift picked up the south vein and the stope is now being opened up above this level. The south vein on this and No. 1 levels is supplying all the ore to the concentrator, over 100 tons a day, and considerable shipping-ore as well, found along the cross-slips. The No. 4 level, 1,325 feet elevation, has been driven ahead from the face of the old *Plate* tunnel, and at the time I was at the property (January 1st, 1922) had about 200 feet to go before it was expected to encounter the south vein. When this vein is opened up it will prove the ore-shoot to a depth of about 700 feet below the surface, and should the values hold as good as the upper levels will mean several millions of dollars' worth of probable ore. When both veins are raised on from the No. 4 level and the ore blocked out and "in sight," then a fair estimate can be made of the value of the ore. It has just been reported in the press that there are $80,000,000 worth of ore in sight, which may prove true, but is an absurd statement to make at the present stage of development.

Diamond-drilling was being done on the No. 4 level and one or two drills have been in operation all year, totalling 6,800 feet of drilling. A raise has been put through from the fourth to the second level and equipped with a hoist and cage for a thoroughfare from the No. 4 camp to the upper camp, where the main office is located.

Of the ore-bodies, S. J. Schofield says: "The ore-bodies in the *Premier* mine follow closely the contact between the quartz porphyry and the tuffs, both of which are highly altered. Up to the present no ore has been found entirely enclosed in the tuffs, but several lenses occur in the quartz porphyry. The chief locus of the ore-bodies, however, is the tuff-porphyry contact. The ore-shoots are in the form of lenticular veins, in most places about 10 feet in thickness. They have been formed partly by fissure-filling and partly by replacement of the tuff and quartz porphyry. The ore-bodies, which strike N. 75° E. and dip 70° N., are cut by several faults and shear-zones."

Surface improvements and equipment at the upper camp include new buildings for hospital; residences; bunk-house, and improvements and additions to the old ones; change-house, using open cages in which men hang their clothes, hoist them to the ceiling out of reach, and lock them when not in use, doing away with the old locker system; mine warehouse and office, etc. At No. 4 camp, at the mouth of the No. 4 or main working-level, much construction has been done and a great deal of equipment installed; a new bunk-house, with up-to-date accommodations; snow-shed; concentrator; upper terminal tramway; blacksmith-shop, equipped with machine-drill sharpener and oil-burner for heating steel; compressor building, housing two 150-horse-power Fairbanks-Morse semi-Diesel engines, compressors, lighting plant, and well-equipped machine-shop. An auxiliary consisting of two 150-horse-power Fairbanks-Morse semi-Diesel engines has also been added to the power plant.

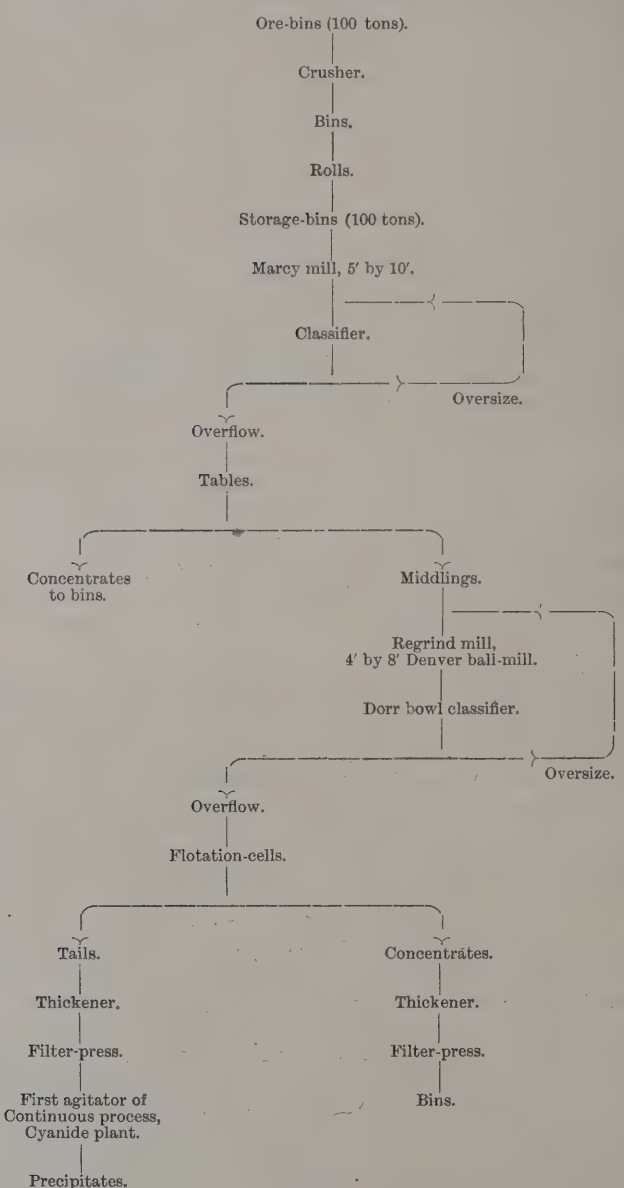
Transportation from the dock to the mine, a distance of about 15 miles, has been the greatest handicap to the development of the property. It was therefore decided to install a tramway and work was started this spring as soon as weather conditions would permit. The contract was let to the Riblet Tramway Company, Spokane, Wash., and that this company was able to complete it and have it in operation for January 1st, 1922, is a very creditable piece of work. It is 11½ miles in length, in four sections or with three angle-stations, and with a tension tower on an average of about every 4,000 feet. The difference in elevation between the upper terminal at No. 4 level of the mine and the lower terminal at the dock is about 1,325 feet. The power required to operate it is a 50-horse-power motor geared to the bull-wheel at the upper terminal. There are 153 towers in the entire distance. There are 120 buckets being used at present of 800 lb. capacity each, and as it takes less than two hours for a bucket to travel the 11½ miles,

it means a bucket dumped every two minutes, giving a capacity, at full speed, of about 12 tons an hour, which will be cut down somewhat when handling return freight.

The mill was started in July and has been running continuously, except for minor close-downs for repairs and alterations. On account of the complex nature of the mill-feed, especially its variations in silver-sulphide contents, its treatment has presented many complications and necessitated some small alterations in the mill from the original flow-sheet.

The mill was designed for treating 100 tons of feed in twenty-four hours, but has been running over capacity and producing from 20 to 30 tons of concentrates a day. The following is the present flow-sheet of the mill:—

Flow-sheet of Premier Mill, Salmon River, Portland Canal.



The ore-bunkers at the lower terminal have a capacity of 1,500 tons and are so arranged that boats are loaded directly from them by means of a travelling belt. They are housed in a three-story building 300 feet long. The lower floor on the dock-level is used as a warehouse

and storage and also contains the loading-belt. The next floor is a warehouse and the top floor is the lower terminal of the tramway and therefore the dumping and loading floor. A small hoist and incline truckway has been arranged for taking freight from the dock-level to the second or top floors. A heating plant will be installed for the double purpose of keeping perishable supplies and the ore from freezing in the bunkers.

I understand that all adjustments have been made on the tramway and that it is now working perfectly, delivering about 100 tons of ore a day. Its necessity can be appreciated when it is realized that the company has been using from forty to sixty horses and two 5-ton caterpillar tractors for hauling throughout the year, and has handled upwards of 6,000 tons of freight from the dock to the mine over the wagon-road.

The shipments from the mine this year amounted to 4,356 tons of ore, and from the concentrator 1,000 tons of concentrates and about 9,000 lb. of precipitates from the cyanide plant, the total production yielding 35,000 oz. gold and 1,200,000 oz. silver, valued at $1,400,000.

The perfected facilities for handling ore now from the mine to the dock should greatly increase shipments in the future, and will probably enable the company to ship a medium-grade ore, such as their siliceous gold ore, or ore not too high in silver values, but too good for mill-feed, to the Granby smelter at Anyox.

Credit is due the energy and efficiency of the general manager, Dale L. Pitt, and assistant manager, Bert F. Smith, for the progress made in the past two years and for the very capable organization they have built up.

The majority of the properties in the Salmon River valley have been described in previous Reports (1918, 1919, and 1920), and since there has been little development-work done this year, other than the yearly assessments, I did not make any examination beyond the *Premier*.

E. H. Bartholf and a couple of men worked on the claims of the Outland Silver Bar Mines, Limited, all summer. This company was incorporated in July, 1920, with a capitalization of $500,000, divided into 500,000 shares, with its head office in Vancouver. The company's holdings consist of six claims on the west side of Salmon glacier, about opposite the *Forty-nine* and south of the West arm of the glacier, and therefore in Schofield's "belt of dykes." The work has consisted of open-cutting and the owners report that good showings of steel galena carrying high silver and good gold values have been exposed.

Fish Creek Mining Co.

The holdings of this company consist of fifteen full claims and two fractions, situated on the Alaska side of the boundary-line, at the head of Fish creek, which empties into the Salmon river about 4 miles up from Hyder. W. Tonkin, of Seattle, is president and manager of the company and Harry Tanner has charge of operations at the property. The claims were staked about 1910 by Dan and Andy Lindeborg and acquired a year or two later by the present company. A great deal of work has been done on the different showings on the claims in the last five or six years. Three tunnels were driven on the *Olympia* claim, the lower about 100 feet long; on the *Nevada* claim, two tunnels; and on the *Starboard* claim, two tunnels.

This year's work was confined largely to the development of a well-defined vein recently discovered on the *Olympia Extension* claim, cropping on the divide between Skookum creek and Salmon river at an elevation of 3,000 feet. It strikes north-east and south-west and dips about 70° to the north-east. A number of open-cuts were put in on this vein, tracing it for about 600 feet on the surface, exposing a quartz-filled fissure mineralized with pyrite, galena, and grey-copper. The heavy galena and grey-copper carry high values in silver, the pure grey-copper assaying over 1,000 oz. to the ton. Several tons were sorted and shipped from the surface. A crosscut tunnel 140 feet long was driven, cutting the vein at about 60 feet depth and showing it to be about 7 feet wide, of which 2 feet is good shipping-ore and the balance a good-grade milling-ore.

A substantial camp was built near the portal of the tunnel at 2,825 feet elevation on the Salmon River slope, to which there is a good trail up Fish creek. Work will be continued throughout the winter, to consist of drifting both ways on the vein, sinking on the ore-shoot at the intersection of the crosscut tunnel with the vein, and the sorting, sacking, and shipping the ore that can be taken out in this work. About 20 tons was shipped during the summer and 20 tons more sacked ready to rawhide down to the wagon-road.

With the considerable tonnage of 300-oz. ore in sight and good transportation, there should be no reason why the property should not be developed into an important producer. Mr. Tonkin

informed me that it was the company's intention to install a compressor early in the spring, and a suitable concentrator, probably a flotation plant, as soon as possible.

New Alaska Group.

This property is comprised of a group of claims lying just across the Alaska-British Columbia boundary-line on the Alaska side and near 11-Mile on the Salmon River road. This group was under option for over a year to Charles Caldwell, who drove a tunnel without results sufficiently encouraging to continue. This fall the property was bonded to Pat Daly by the owners, Charles Knipple, Dan Davis, and Bill McGrew, and a small crew under Mr. Daly's supervision has been kept on development-work since.

The upper claims of the group are traversed by a broad zone of mineralized, silicified greenstone-schist of the Bear River formation. Stripping and open-cutting on this zone this fall exposed a width of about 40 feet of more pronounced mineralization, showing bunches and small lenses of galena, carrying good silver values, extending for several hundred feet along the outcrop. A tunnel was started on the north bank of a creek, cutting the zone, and in the 15 feet driven shows similar ore to that exposed on the outcrop several hundred feet away. Altogether the showing on this property is very encouraging and warrants extensive development.

Other properties on the Alaska side of the boundary-line are: The *Hoveland* group, staked and owned by J. Hoveland, of Hyder, Alaska, who has driven a tunnel 100 feet long and made numerous open-cuts and trenches on the vein, which is said to be a very persistent quartz vein, heavily iron-stained, and carrying good gold values in places. The *Riverside* group, probably better known as the *7-Mile* group, situated at 7-Mile, on the Salmon River road, is owned by Dan and Andy Lindeborg. Two tunnels, totalling over 200 feet, have been driven on a pyritized quartz vein lying in massive granite, showing considerable galena in places, the presence of which generally assuring good gold values. A small concentrating plant warranted by the ore already exposed should pay for further development, with a good chance of making a profitable small producer. The *Lucky Boy* group on Fish creek, owned by Pat Benson and associates, has had a tunnel 100 feet long driven, starting in the face of the bluff at Fish Creek falls. At about 80 feet from the portal there is a showing of 6 or 8 inches of mixed pyrite and galena showing on both walls of the tunnel. Another tunnel above the falls has been driven 12 feet and a winze sunk at the face. The *Fitzgerald* claims are said to have a promising-looking showing.

A branch trail from the Salmon River wagon-road was built up Fish creek this summer by the Alaska Road Commission.

STIKINE AND LIARD MINING DIVISIONS.

The production from these Divisions for the year was very small, amounting to about 280 oz. of placer gold.

George Adams, hydraulicking on Thibert creek, had a small clean-up on account of the immense amount of dead-work involved in removing a great mud-slide which buried his working-pit and some of his equipment. He informed me that this had been disposed of this year and that he was consequently in better shape than ever to go ahead in sluicing and cleaning bed-rock for the next two or three seasons. He is very confident that his returns will be more than satisfactory. Mr. Adams is a "sticker" and a worker and if any one can make a success of this undertaking he will.

George Adsit, on Mosquito creek, took out about 15 oz.; four men sluicing on Dease creek, about 40 oz.; three men on McDame creek, about 20 oz.; Indians on the Tahltan river and various prospectors, about 55 oz.

That interest is beginning to be taken in this extensive country is evidenced by the fact that several prospectors and scouting parties went in this year. No doubt the oil possibilities of the Northern Interior of Canada will mean the prospecting of this north-eastern part of the Province.

No lode-mining of any kind was reported for this year, either on the Stikine river or its tributary, the Iskut. At least one party was up the Iskut this year and they claimed to have traversed a well-mineralized country. Some improvement of navigation will be necessary on this river before there is any possibility of the opening-up of the section.

I reported early in the summer to the Department of Mines that I would be unable to go into these Divisions this season on account of lack of time and was instructed to send in an assistant. J. Frank Breeze, an operator in the Atlin country for several years, was procured for the trip. His report follows:—

Premier Gold Mining Co.—Dock Bunkers looking North.

Premier Gold Mining Co.—Dock Bunkers looking South.

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"Pursuant to your instructions to proceed to the Cassiar District and observe and investigate mining operations and conditions there, I left Prince Rupert on July 18th for Wrangel, Alaska, arriving there on the 19th, leaving by the river-boat on July 21st for Telegraph Creek, which was reached on the afternoon of the 23rd. Arrangements were made for horses and other supplies necessary for the trip, and on July 26th we started over the trail for the head of Dease lake, where we arrived on the 30th. There is no mining along this trail, although there is evidence of placer-mining in previous years at different points along the Stikine River benches and on some of the small tributary streams. On the Tahltan river, near its junction with the Stikine, there has been work done by a couple of men this year, but it is of a very casual nature.

"From the head of Dease lake I went by Hudson's Bay scow to Porter, at the foot of the lake. I was delayed here until August 4th by lack of a boat and bad weather. While here, a party headed by H. G. Nicholls, of Vancouver, and consisting of himself, F. Watson, and W. Julian, arrived on their way to investigate petroleum indications observed a little below the junction of the Dease and Liard rivers. On August 4th we left Porter in two boats to proceed down the Dease river to Liard Post, which was reached on August 9th. At Porter I obtained the services of F. Allen, who wanted to make the trip down the river and back, and who also was interested in the oil location. The other party had the services of an Indian, who was very familiar with the river, making four in their boat and three in ours.

"The Dease river is 180 miles in length following its course and has a drop in elevation of 560 feet in its entire length. At the stage of water when we were on the river the current probably averages 4 miles an hour, but in many places in the riffles and rapids it greatly exceeds that. There are some reaches with quite slack water, notably for 10 or 12 miles above McDame creek. There are no places on the river that cannot be safely run by a boatman familiar with river-work, but a knowledge of the river and its bad places is very desirable, and some of the rapids should not be attempted for the first time without first viewing them.

"From Liard Post we went overland to a point about 15 miles south-easterly of the post to the neighbourhood where the indications of oil were said to exist. The country in this vicinity is low-lying and rolling. The general direction of the ridges, which appear to be composed of gravel, is north-easterly and would appear to be arranged by river-flow. There is very little rock outcropping, but sandstone was noticed, also shale, and some rock that has the appearance of being volcanic in origin. Quite a lot of large fragments of lime were also noted, indicating lime formation in the neighbourhood. The gravel observed was the usual river-wash and included considerable sandstone and tuff pebbles as well as granite boulders of some size.

"The formation where the indications of oil was observed, and which had been on fire and had burned continuously for about two years, appeared to be a black carbonaceous shale or impure lignite. The fire was not burning while we were on the ground.

"On August 15th I left the oil territory in company with Walter Julian, F. Allen, and T. Hankin for Liard Post, from there to return up the river. We arrived at the post that afternoon and spent the next day drying blankets and outfit, which had got wet during the continued wet weather of the past week, and preparing for a trip up the river.

"We left Liard Post on August 17th and reached Porter on September 3rd, having been seventeen days on the river, working our way up-stream every day, with the exception of two days that we laid off to dry our bedding and outfit, kept damp throughout the whole trip by the almost constant rain. The continued rains caused high water in the river, covering the beaches and making the river difficult to proceed against.

"It would seem that a reasonable expenditure of work on the Dease river would make it safer and easily navigable for small river-boats of the type now in use on the Stikine river between Wrangel and Telegraph Creek. This work would chiefly consist of shooting out some rocks in the various rapids and the straightening of some of the bends by means of shear-dams. The Hudson's Bay Company send supplies down the river from McDame and Liard Post in scows of 45 feet in length manned by crews of seven men each, loading as much as 12,000 lb. to the trip. The time consumed on the trip is from sixteen to twenty days.

"At Porter, McDame Post, and the Liard Post we saw thriving vegetable-gardens, with potatoes, carrots, beets, radishes, onions, lettuce, etc., all doing very well. At Liard Post, Frank Bass, the post manager, has a very flourishing garden and we had some excellent new potatoes as well as other garden-stuff. The two or three light frosts experienced during the

trip did not do the gardens any apparent harm, and along the valley of the Dease there are long stretches of river-bottom that might return good crops if cultivated.

"Below McDame creek the valley of the Dease widens and the river also gains in size. High cut-banks of gravel, sand, clay, etc., of considerable extent appear and the river's course is interrupted by frequent bars forming sloughs and cut-offs. Farther down-stream the banks become generally lower and the hills are farther back from the river and extensive flats and bars are formed. Any of the bars will apparently give a prospect of fine gold to the pan, and some of the bars cover considerable area, so great that if on prospecting them the values are sufficient and consistent they would make workable propositions for dredging. The gold, while fine, is not flaky, but under a glass appears to be shotty or heavy in character. The depth to the bed-rock, which is generally a shale in this locality, does not appear to be great, as it frequently outcrops along the shore and in the stream-bed, helping to form the numerous riffles encountered in the course of the river.

"*McDame Creek.*—When I visited this creek there was no work being done, the only persons who had been doing anything this year—Wing *et al.*—having discontinued operations for the year, but I am informed that they will resume next spring.

"*Haskin's Mountain.*—This mountain is reached via McDame creek. A number of mineral claims were held on it for some years, but there is no actual development being done. Mr. Brindle, who represents some interested parties, and whom I met at Porter on his way out of the country after spending the summer investigating the properties, expressed himself as being satisfied with the results of his work.

"*Thibert Creek.*—This creek flows into Dease river from the west, just where Dease river flows out of Dease lake. The principal operations are those conducted by George Adams on the property lately held by the Dease Lake Syndicate and established by the late Warburton Pike. The property comprises a number of leases that cover between 3 and 4 miles of the benches of the creek, through which an old channel runs, at an elevation of about 100 feet above the present creek. The rock formation in this neighbourhood is chiefly magnesium rocks and the bed-rock of the pit being worked this summer is largely serpentine. Mr. Adams's work was much hampered and set back by a great slide of overburden that necessitated the removal of his plant and a new set-up. Then he had to pipe away a great deal of the slide to get to the face of the pit, so that it was not until well into August that he had any pit-room or got back to virgin ground to the face. The ground he was working at the time of my visit was prospecting very satisfactorily and Mr. Adams expressed himself as very much pleased with the outlook.

"While the slide, which broke far up the hillside and filled his workings and overran to the creek below, occasioned him considerable delay and expense, he estimates that he will later be benefited by it, for at the present rate of progress, he will have at least two years' work in ground from which the most of the overburden has been removed by the slide, consequently saving him the expense and time required to otherwise move it.

"It is his intention to increase his water-supply by taking water from Thibert creek, which has an ample and unfailing flow. He is now looking into the matter of materials, etc. The transportation question for this undertaking is a serious one at this point, the pack-train being the only means of obtaining supplies or equipment from Telegraph Creek to the head of Dease lake, a distance of 75 miles.

"Mr. Adams has traced the old high channel along the south side of Thibert creek from Berry creek, where his present workings are located, for a distance of about 3 miles down-stream. Thibert creek was pretty thoroughly worked in the early days and the best 'pay' found where the old high channel had been broken down or cut through by smaller streams and the gold from it concentrated in the present creek-bed. There is every reason to believe that the old channel thus contributed to values that made mining profitable on Thibert creek in those early days.

"*Deloire Creek.*—This creek enters Thibert creek from the south, about 3 miles from its mouth, and is a steep creek with a good flow of water. Work was done on this creek this year by the Noonan Bros., but was discontinued early in the summer. They were endeavouring to locate the continuation of the pay-channel that was successfully worked for some years. They sunk a shaft and also operated an Empire drill in an effort to determine the depth to bed-rock to guide them in bringing up a drain that would take care of the flow of water on the ground.

This work is to be resumed in the spring by others who have a working arrangement with the owners. It is a likely location and merits prospecting.

"*Mosquito Creek.*—This is a small creek flowing into Thibert creek from the north, about 13 miles from the mouth. The only work being done is a tunnel that is being driven by George Adsit, who has worked the ground by means of open-cuts for some years, but who is now trying to follow the 'pay' on bed-rock under the present creek-bed. Being immediately under the flow of the present creek, the drift is very wet and he is working at considerable disadvantage. He claims that the ground in the face prospects very well, and some panning that I did while there returned a few grains of nice-looking shot gold.

"*Dease Creek.*—Dease creek enters Dease lake from the west, about 8 miles from the foot of the lake. It has an ample supply of water, maintaining a flow of probably 5,000 miners' inches on a steep grade. The bed of the creek and the lower bars were worked in the early days and considerable drift-mining was carried on in the working of the older river-channel, which follows chiefly the south side of the present creek, at an elevation of about 150 feet above it.

"About 3 miles up the stream from the outlet Tom Ryan is endeavouring to tap the old high channel by means of an open-cut, using a boomer and a hose-line. He is still on the rim-rock, but has some good-looking gravel coming in in the face of the cut. He reports good prospects and hopes to get through to the channel next summer. He is preparing to run a tunnel into the ground this winter at a point where he has good prospects of obtaining fair 'pay.'

"Adjoining him, Philip Hankin is running a tunnel to get into the same channel. His tunnel is still in the rim-rock, but he expects to get through it in another 30 or 40 feet. Three miles farther up the creek and about 6 miles from the mouth, Mr. Johnson is drift-mining and says that he meets with varying success. He had two men employed in the early summer, but is now working alone. This constitutes all the operations on Dease creek at present. The flats at the mouth of the creek were prospected by drilling a few years ago, and, while satisfactory values were said to have been obtained, the work was discontinued on account of the war and has not since been resumed.

"Investigation might prove the old high channel on Dease creek worthy of equipment to work it, for where it was possible to work it by drifting the returns are reported to have been good, and from the amount of work that was done it is evident that the miners met with encouragement."

ATLIN MINING DIVISION.

The placer yield has been practically the same as last year, about $138,500, and may be expected to average about the same for some years to come, unless new diggings are found, as there is little chance of any of the working creeks increasing their present outputs to any extent. Spruce creek with an output of $50,000 and Ruby creek with $47,000 are the leading producers in the Division, and with Pine and Otter creeks, producing about $12,500 each, and Boulder creek, producing $3,600, make up the bulk of the yield for 1921. The event of the season was the finding of a 40-oz. nugget on Ruby creek.

Lode-mining has at last shown some signs of activity, especially in the Rainy Hollow section, where the *Maid of Erin* property is undergoing development.

In the Atlin section also, the Fourth of July creek properties have received some attention this year and deserve more. The *Engineer* mine has still got the most prominent ear-mark of a valuable mine—litigation. It is unfortunate that the progress, not only of the property itself, but probably the whole section, must thus be retarded.

Rainy Hollow Section.

This section is the drainage-basin of the Klehini river, a tributary of the Chilkat river, which flows into Chilkat inlet north-west of Haines, Alaska. The area is reached by way of Haines, a port of call for American boats, but not for the Canadian Pacific Railway boats, which go on through to Skagway, about 15 miles farther. From Haines there is a good motor-road for 24 miles to Wells camp; from there is a fair wagon-road through to the foot of Mineral mountain, on which the mine is situated, a further distance of 32 miles, of which the last 12 miles is in British Columbia.

The Alaska Road Commission expended $40,000 last year and $25,000 this year in rebuilding the road from Haines to Wells, building a bridge across the Chilkat river about a half a mile above Wells, and continuing the road for a mile or two above the bridge. They expect to finish through to Pleasant camp, at the International Boundary, next season. The road from Pleasant camp to the mine had some badly needed repairs made on it this year by Mr. Wiley, who is operating in Rainy Hollow. This portion of the road requires at least $5,000 more spent on it as early next year as possible.

The bridge built by the Alaska Commission above the forks of the Klehini and Chilkat rivers is 900 feet long and has a width of 11 feet between the guard-rails. The bents are 15-foot centres, of four piles each driven 15 feet in the gravel, on which are five stringers for the decking of 4-inch plank. It is certainly a very substantial structure and, as there is practically no driftwood in the Chilkat river, the short spans are not a fault.

The old road was on the south side of the Klehini and had the double disadvantage of being late in clearing of snow in the spring and necessitating recrossing the Klehini below Pleasant camp; however, it served the Porcupine and Glacier Creek placer camps. The new road has been cruised up the north side of the Klehini all the way, practically following the old Dalton trail, and will be a first-class truck-road from the boundary-line to Haines when completed.

The only property which is being developed to any extent is the *Maid of Erin* group, which is under bond to Robert Wiley, of Seattle, and who started work in June, 1920. For a previous description of the property the reader is referred to 1918 Report, page 86.

There are thirteen claims in the group, situated on Mineral mountain, 58 miles from Haines, and owned by Conway, Kennedy & Burnham, of Skagway, Alaska. The owners had done considerable development-work and made some small shipments.

Mineral mountain consists of broad belts of limestone, slate, and sandstone in places metamorphosed to quartzite, the whole apparently underlain by granite, which forms the western border of the sedimentaries and shows a little lower on the hillside. Directly in contact with the granodiorite is a belt of crystalline limestone from 300 to 400 feet wide intruded by spurs from the main granite range.

Along the granite there is a belt of crystalline limestone in which there are several veins roughly paralleling each other and the granite. The most important of these, so far, is about 250 feet east of the granite-limestone contact and consists of a vein of contact-metamorphic type, about 12 feet in width, composed of from 1 to 5 feet of a mixture of solid bornite and chalcocite lying on the limestone foot-wall; the balance of the vein is garnetite, quartz, and some calcite, disseminated with bornite and grading out into the limestone hanging-wall.

The vein dips into the hill away from the granite at about 22°. There are several outcrops below this, indicating other veins and mineralizations of the same type. No work has been done on these showings yet. The granite-limestone contact is at least 400 feet vertically lower than the outcrop of the upper vein, indicating that considerable depth may be expected to the veins.

An incline shaft has been sunk on the main vein, following the limestone foot-wall, a depth of 160 feet (in the middle of July), exposing from 1 to 5 feet of solid bornite and chalcocite all the way down. I understand that the shaft was continued to over 200 feet depth with good ore all the way, though rather broken up at the bottom. Drifts are being run both ways from the bottom of the shaft and are opening up a fine shoot of ore. Mr. Wiley is very pleased with the results of development so far. He was able to get out only 55 tons before winter set in, assaying 25 per cent. copper and 32 oz. silver to the ton. The property has all the appearance of developing a big tonnage of high-grade copper ore. With the amount of milling-ore indicated in the main vein and what may be expected when the lower veins are opened up, it looks as if it would make a big milling proposition. Given good transportation in the shape of a first-class truck-road, this property should make a valuable producer.

Mr. Wiley has attacked the undertaking in a very aggressive manner, and has not only done a lot of prospecting and development work, taken out and sacked several hundred tons of ore ready for shipment, and built a 3-mile tractor-road from the end of the Government road up to the mine, but has also expended a large amount of money on equipment. This consists of two 15-ton Holt caterpillar tractors, each of 120 horse-power, with 4 trailers, one 5-ton, one 3-ton, and two 2-ton capacity; a small Cleveland tractor; a portable air-compressor of 210 cubic feet of air a minute capacity; and two jack-hammers for development-work. In addition, there are two 5-ton Holt caterpillar tractors and five 5-ton trailers on order.

The big tractors and heavy trailers are for use on the road from Haines to Wells or farther as the Alaska road is completed, and will easily handle 40 tons each of freight in and ore out. The 5-ton tractors will be used from the end of the Government road at the foot of the hill as far down as found feasible, to supply the big tractors with ore and, of course, take freight back. The Cleveland tractor is used on the hill for hauling ore from the mine down to the Government road. The portable compressor was taken up to the mine early in the summer and was in operation the balance of the season.

Altogether, Mr. Wiley had invested about $125,000 in the undertaking by the middle of July, and at that time figured on getting out several hundred tons of ore during the fall. He estimates that he can deliver ore from the mine to Haines, 58 miles, for not to exceed $10 a ton with a first-class road.

The opening-up of this property and putting it on a shipping basis means everything to the Rainy Hollow section and for 40 miles beyond, to the Yukon boundary, which is said to be a well-mineralized country, but, of course, inaccessible so far as lode-mining is concerned. Every assistance should be given in putting the road on the British Columbia side in good hauling condition.

Saucier & Goddard, of Haines, have some claims across the Klehini river a few miles from Pleasant camp, on which there is said to be a fair-looking quartz vein, carrying free gold, in massive granite formation. A Mr. Silverman examined the property this summer and appeared well pleased with it.

Atlin Section.

Big Horn Group.

This group consists of six mineral claims—*Big Horn*, *Little Bear*, *Gold Bird*, *Lucky Jack*, *Tyee*, and *Bertha*—owned by Fred Lawson and associates. The claims are situated up Big Horn creek, about 10 miles by trail from Taku arm of Tagish lake. Mr. Lawson's cabin is on the west side of the arm just opposite Golden Gate. The *Engineer* mine is a few miles farther down the lake and on the opposite side. The trail from Lawson's cabin skirts around the lake to Otter creek, which it follows up about 3 miles to Big Horn creek, which empties into Otter. It then follows up Big Horn creek to the camp at the property. The camp is at an elevation 2,550 feet, or only 400 feet above the lake, and the trail therefore has little grade and could be converted into a wagon-road at comparatively small expense.

The showing on the claims is a small flat quartz vein occupying a shear-zone in hornblende-schist formation overlying a gneissoid granite. The shear is about 2 feet wide and filled with ground-up schist, in which the fissure-filling of quartz is from a few inches up to the full 2 feet in width. The quartz carries small amounts of pyrite, galena, and native gold.

At 3,390 feet elevation a tunnel has been driven on the vein for about 50 feet. At the face the vein is about 6 inches wide and looks as if it were turning down on a dip of about 30°. A sample at the face gave low values in gold and silver. About 40 feet north of this another tunnel has been driven about 54 feet, following the vein for about 6 feet, when it cut out, but again appeared about 10 feet back from the face. Older barren veins of quartz are also found in the shear-zone. The quartz lens on which the tunnels have been driven appears to pinch out just north of the last tunnel. There is about 50 tons of ore on the dump from these two tunnels ready to be taken down to the mill at the cabin. The vein can be followed along the face of the bluff for 200 feet south of the first tunnel. It has been open-cut for about 100 feet of that distance, from which some fine ore was taken. A grab sample of the broken ore along the cut gave 23.9 oz. gold and 3 oz. silver to the ton. This is the largest quartz lens seen on the claim, though there are many small ones, bunches and blocks, in the broken-up distorted schistose-rock formation.

A light-coloured quartz or granite-porphyry dyke striking N. 10° W. (mag.) was followed from the quartz vein to the top of the hill, at 5,425 feet elevation. In this several lenses of quartz were noted, paralleling the strike of the dyke, but as no work had been done on any of them no samples were taken. Values of $18 a ton are said to have been obtained on the croppings.

Mr. Lawson has rigged up a tramway with a heavy wire from the tunnel levels to the foot of the hill. Ore is let down in a single bucket with a light cable running on a braked windlass, used for pulling the bucket back. The mill consists of a sample crusher and one stamp operated by an overshot water-wheel. No ore is sent down the hill that does not show free

gold, the feed assaying up to 14 oz. gold to the ton and the sulphide concentrates running up to 90 oz. gold to the ton. A grab sample from a small dump at the camp that has been sorted over several times gave $14 a ton in gold.

The showings on the property are too limited to warrant any large operations, but three or four men might make the lens pay, the work on which is being done.

Spokane Group.

This group consists of three claims—*Spokane*, owned by Mrs. A. Lawson; *Mohawk*, by Horace Fraser; and *Edwin*, by Jules Eggert, of Atlin, B.C.—and is situated about a mile north of the *Big Horn* group. Considerable work has been done on the property, consisting of three tunnels. The highest, at 4,275 feet elevation, is in about 12 feet, with a 15-foot open-cut at the collar. The work shows a 2-foot vein of quartz, sparingly mineralized with disseminated iron sulphides, lying in a schistose country-rock. The vein strikes S. 60° W. (mag.) into the hill and stands about perpendicularly. A grab sample taken from about 20 tons of quartz on the dump gave returns of 0.76 oz. gold and 0.4 oz. silver to the ton.

The next tunnel, called the "blacksmith tunnel," is at 3,750 feet elevation. It was driven 30 feet to the vein and the vein crosscut, showing a width of 10 feet of quartz slightly mineralized with grains of marcasite. At 3,375 feet elevation the vein again crops, showing 4 feet of quartz. A tunnel was driven here for a distance of 125 feet, but bears away from the vein. The mouth of the tunnel had caved and was therefore impossible to get into it, but I suppose the idea was to drive alongside the vein in the softer country-rock. Altogether, this is a rather promising-looking vein. It is very persistent and if the quartz averaged from $15 to $20 a ton it would make a profitable little property.

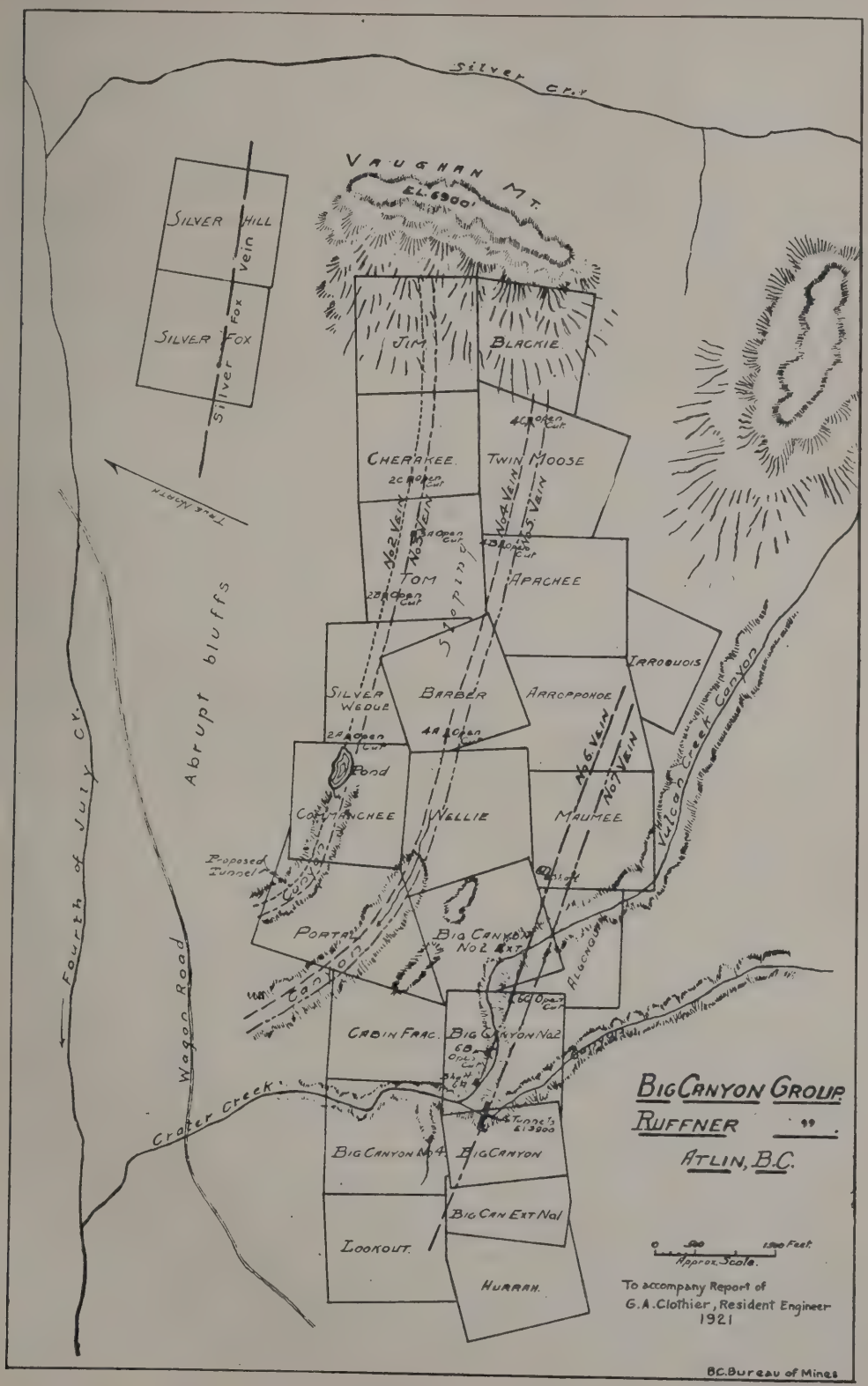
Big Canyon and Ruffner Groups.

(*See* accompanying sketch.) These two groups include altogether twenty-five mineral claims, twelve in the *Big Canyon* group and thirteen in the *Ruffner* group. The former is under option to Mr. Ruffner, of Atlin, B.C., who staked the balance of the ground contained in the *Ruffner* group. The claims are situated on Vaughan mountain, about 10 miles up Fourth of July creek from Atlin lake. From Atlin it is about 14 miles by wagon-road, the first 6 miles of which is in good repair; the last 8 miles, up the creek, is in fair condition, but has not had sufficient work on it to make a good road. Transportation, however, would not present any serious difficulties, for an easy-grade motor-truck road could be built from the lake to the foot of the hill, on which the claims lie, at a comparatively small cost. There is a fine bottom for a road, no rock-work, and very little grading would be needed if the road route were carefully selected. The difference in elevation between Atlin lake and the foot of the hill, 10 miles, is about 1,000 feet, and from the foot of the hill to the present camp is about 750 feet. The valley is well timbered and I judge that plenty of water-power could be developed in Fourth of July creek.

The prevailing rock formation of Vaughan mountain is light-coloured coarse-grained granite. This has been intruded by many dark-green andesitic dykes which have followed a roughly parallel series of fractures in the granite, striking N. 30° to 50° E. and dipping at a high angle to the north-west. The dykes have evidently also formed lines of weakness, for they have been intensely sheared and crushed by subsequent movements. Mineral-bearing solutions following along these shear-zones have filled the fissures, replaced the crushed dyke-rock to a great extent, and cemented the rock fragments with quartz, calcite, and the metallic minerals, arsenopyrite, zinc-blende, galena, pyrite, and chalcopyrite, in importance of probably the order named. The veins are therefore mineralized dykes.

Owing to the loose ground-up nature of the vein-filling intense weathering and oxidization have taken place, and the surface showings are consequently nothing more than residual limonite and sand, with ribs of mineralized quartz in it. This surface oxidization has penetrated to such a depth that none of the surface work yet done on the showings has got into the solid vein-filling beneath.

On the lower claims, or the *Big Canyon* group, two big veins or mineralized dykes crop very prominently and considerable work has been done on them. The upper of these veins, called the No. 7, cuts across Crater creek, about 300 feet south of the forks of Crater and Vulcan creeks. The canyon exposes it to considerable depth, showing it to be from 25 to 30 feet wide and striking N. 50° E. (mag.) The hanging-wall portion of the vein for a width of 8 or 10 feet is brecciated quartz and dyke-rock, very slightly mineralized and gradually becoming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BARBER
ARROWHEAD
Pond
COMANCHEE
WELLIE
MAUMEE
Proposed Tunnel
PORTAL
BIG CANYON No2 EXT.
CABIN FRAC.
BIG CANYON No2
BIG CANYON No4
BIG CANYON
BIG CAN EXT No1
LOOKOUT
HURRAH
Abrupt bluffs
Fourth of July Cr.
Wagon Road
Crater Creek
Vulcan Creek Canyon
BIG CANYON GROUP
RUFFNER
ATLIN, B.C.
To accompany Report of
G.A. Clothier, Resident Engineer
1921
BC. Bureau of Mines

more quartzose toward the centre of the vein. The central part is the best mineralized, while the foot-wall is practically straight dyke-rock. At an elevation of 3,900 feet a tunnel has been driven 170 feet, following the ore, which occurs in parallel bands, bunches, and small veinlets. At about 100 feet in the tunnel a lens of ore about 6 feet wide and lying about the centre of the dyke was followed for about 30 feet, where it cut off abruptly, probably thrown to either of the walls. Several tons of ore from the tunnel and an open-cut above was sorted and sacked, samples of which averaged about 27 per cent. lead and 50 oz. silver to the ton. The silver values vary from 1 to 3 oz. a unit of lead; samples of galena assaying 50 per cent. lead run as high as 140 oz. silver and $16 in gold to the ton. A conservative independent sampling of the tunnel gave an average of 11.4 oz. silver to the ton across 6 feet for a length of 70 feet. A tunnel was driven 70 feet on the same vein on the opposite side of the creek, showing about the same conditions.

The lower of these two veins, No. 6, lies just below the forks of Crater creek, follows the north bank of Vulcan creek for several hundred feet before crossing to the south side, and is believed to again crop on the *Maumee* claim, 3,000 feet farther up the hill. The work on the lower end of this vein consists of a shaft 10 feet deep and a couple of shallow open-cuts, exposing an intensely oxidized vein from 8 to 12 feet in width. It strikes N. 40° E. (mag.) and dips about 70° to the north-west. The elevation of the shaft and cuts is about 4,000 feet. This dyke is not as wide as the upper one, but the whole is mineralized between the granite walls, giving it more the appearance of a fissure-vein. Two samplings of the shaft gave an average of 15 oz. silver to the ton across 6 feet. The gold values are small, running up to $4 a ton. This is a strong, well-defined vein, traceable for two claim-lengths, carrying fair values in the surface oxides, and is certainly worth gaining sufficient depth to prove it below the zone of oxidization.

Farther up the hill at an elevation of 4,600 feet, on the *Maumee* claim, what appears to be the continuation of the No. 6 claim has been exposed by a shaft about 10 feet deep. An average of different, reliable samplings of the shaft and adjacent open-cuts indicate a value of about 15 oz. silver to the ton for a width of about 5 feet. The vein strikes N. 40° E. (mag.) and stands almost perpendicularly. It is 6 feet wide, between solid granite walls, and composed of siliceous dyke-rock mineralized with arsenopyrite, zinc-blende, and galena.

From this shaft north across the face of the mountain four other veins have been found in a distance of about 3,500 feet, having the same appearance and characteristics as the two already mentioned. No. 5 vein is indicated on the surface, but no work has been done on it yet.

On No. 4 vein, at an elevation of 4,975 feet, an open-cut and tunnel of about 40 feet, shown on the sketch as 4A, expose a vein about 8 feet wide at the portal of the tunnel, where it is intensely oxidized. The face of the tunnel is becoming a little more solid, ribs of mineralized quartz appearing. A sample across 4 feet at the face gave assays of $1.60 gold, 27.2 oz. silver, and 6.5 per cent. lead. Another open-cut, 4B, 200 feet farther east on this vein and at 5,500 feet elevation, shows from 4 to 6 feet of oxidized material. In this is a vein of about a foot of good ore. A sample across 8 inches of it gave 43.2 oz. silver and 2.1 per cent. lead to the ton. The oxides assay between 3 and 4 oz. silver to the ton. Another sampling of cut 4B gave an average for five samples of $3.95 gold and 16.1 oz. silver to the ton across 3 feet. There is another cut higher up on the same vein, proving it for a length of over 4,000 feet. The clean galena in this vein assays well in silver, 42 per cent. lead carrying 162 oz. silver, suggesting grey-copper or silver sulphides, though none were noted. Though depth will be gained very slowly for a way in driving the tunnel at showing 4A, I think the values found in the solid sulphides fully warrant the continuation of this tunnel far enough to get in beyond the oxidization.

Some 1,500 feet north of this is No. 3 vein. The only work done on it is one open-cut, showing a foot of ore in the bottom of the cut, assaying 30.4 oz. silver to the ton.

Still farther north, No. 2 vein has been exposed in several places and demonstrated to extend for a length of at least three claims, or 4,500 feet. One of the open-cuts, 2C, at an elevation 5,575 feet, has been driven on the vein about 25 feet and shows it to be at least 14 feet in width, and consists of soft oxidized material in which are found chunks and badly decomposed seams of solid coarse-grained galena. The clean galena is said to assay over 200 oz. silver to the ton. Down the hill from this, another cut, 2B, assayed $1.20 gold and 50.8 oz. silver to the ton across 24 inches of ore. No. 2 is one of the best-looking veins on the property.

It can be seen following a depression from the top of the mountain to below showing 2B, from which point the ground flattens out to a point below the pond and showing 2A, where it again breaks off abruptly and the vein is distinctly marked by a deep ravine to the bottom of the hill. The point, being at a low elevation, would be a very advantageous place from which to attack the property for extensive operations. By driving a short crosscut tunnel to No. 2 vein and drifting on it, crosscuts could then be driven to intersect the other veins at great depth.

However, there is a great deal of surface development-work to be done before deep development is attempted. The property is seriously handicapped in having such a depth of oxidization on the surface of the veins, but, taking everything into consideration—the number of veins already found, their widths and continuity, and their surface values—I think there is every chance of developing at depth a tonnage of commercial ore that will make this a valuable property. Judging from the values in the sulphides found in the surface, it is certain that the galena will pay to ship, and it may prove that a concentrate of all the sulphides will be of shipping grade.

In my opinion, the property fully warrants the expenditures necessary to drift on the No. 2 and No. 4 veins a sufficient distance to penetrate the zone of oxidization and demonstrate the extent and values of the sulphides in the solid gangue.

Ruby Creek.

This creek was first worked by hydraulicking in 1912, since which time it has probably been the best paying of the smaller creeks in the Atlin district. Records extending over that time show that the gravel has averaged over $1 a yard and bed-rock from $1 to $2 to the square foot. Up to and including 1920, approximately $400,000 has been taken out of this creek by the one operating company. The yearly clean-up has ranged from $30,000 to $80,000 in that time, and about three-quarters of a mile of bed-rock, averaging about 200 feet in width, has been cleaned. A nugget valued at over $700 was found this year.

The company in working up the creek encountered lava along the rim in several places, the flow over the creek-bed evidently having been so thin that it was broken up and carried out with the high water. This basalt flow did not interfere with operations until the fall of 1918, and in the following year it was found necessary to move the plant farther up the creek. I judge that the company has now about 1,000 feet of open creek to the heavy lava-bed above and the limit of its ground. Above the company ground 1,500 feet is held by Roxborough, of Atlin; then 500 feet by the company; then 200 feet by Colbourne; then a mile by Chas. Miller, a mile by Krumbeigle, and above that by various owners.

I see no reason for drawing any other conclusion than that the pay-streak, so thoroughly proven down the creek, continues on up the old channel, which no doubt formed a natural channel for the lava-flow. Judging by the amount of gold that has been taken from the creek below, drift-mining under the lava on the same channel should be profitable if mining conditions are favourable. At any rate, it is well worth investigating, for I am informed that the old channel has never been prospected here. A shaft was pointed out to me on the bank of the present creek and along the edge of the lava-flow which was claimed to be down 20 feet and to have struck encouraging values on the rim of the old creek-bed.

It would not be a very expensive undertaking to sink a shaft to the rim and from there an incline to bed-rock under the lava, from which point drifting operations could be carried on. Pumping might be expensive for a time, but would be dispensed with when the drift on bed-rock had reached the elevation of the top of the shaft.

At the time I was on the creek this summer, July 8th, Krumbeigle and partners were sinking a shaft on their lease trying to penetrate the lava. The shaft was down 40 feet then and still in the solid basalt when work was suspended this fall.

Boulder Creek.

The upper leases on Boulder creek are held by Chicago interests, with Mr. Gore in charge of operations. The great handicap on this creek has always been the lack of water. This year a new dam 150 feet long was built across the creek at an elevation of 4,100 feet. This forms a reservoir which when full will operate two giants about three hours, against twenty minutes

for one giant before. The pressure-box is about half-way between the dam and the pit, from which there is a pipe-line from 40 inches at the box to 12 inches at the machine, with a head of 120 feet. A pipe-line from the dam to the pit would give a 200-foot head. A clean-up was made from a small pit while I was there, yielding $1,000. Considerable dead-work has been done since that time in preparation for further operations.

Otter Creek.

The Mines d'Otter Creek, under the management of Henri Maluin, has been operating on this creek for several years, sluicing out in that time a channel probably a mile long, from Surprise lake to the present face. In all this work there has been no "pay" to amount to anything, with the exception of a couple of small flat benches high up on rim-rock which gave good returns. No bed-rock has ever been found. This year's operations have been the most encouraging so far, and it looks as if the rims were converging and consequently some chance of reaching bed-rock. In addition to this, "pay" was found on the right-hand side of the creek, looking up, on a higher rim, which increased the season's yield and gives promise of further "pay," as well as better results expected on bed-rock in the near future.

Mr. Maluin and the company he represents are certainly "stayers" and are deserving of every success.

O'Donnel Creek.

There has been no production from this creek to amount to anything for the past several years. This year there were three men working at different places on the north banks, trying to get under a deposit of blue clay, under which the old workings had good "pay." It looks as if there had been a slide, or a deposit, of blue clay over an old channel, but whether the clay has crowded the gravel out of the old channel entirely and over the rim of the present channel, or whether the clay has simply covered the gravel in the old channel, is the information wanted.

See J. A. Fraser's report on the Atlin Division following this report.

In concluding this report, I wish to express my appreciation of the courtesy and assistance of the prospectors and operators throughout the district.

CASSIAR DISTRICT.

ATLIN MINING DIVISION.

REPORT BY J. A. FRASER, GOLD COMMISSIONER.

I have the honour to submit my report on mining operations in the Atlin Mining Division of Cassiar District for the year ending December 31st, 1921.

I regret having to report another season of limited operations and output; this was due to the small number of men engaged in actual mining, the large percentage of whom were engaged in prospecting new ground or in doing dead-work of a prospecting nature.

There was a smaller number of people in the district this year (not counting tourists) than ever before, and of those who were here not more than 130 were engaged in placer-mining at any time, and of those at least twenty were prospecting new ground in one form or other.

Not more than forty men were engaged at any time in quartz-mining, and of those from twelve to fifteen were prospecting and doing assessment-work.

I have not been able to secure as full returns of output as in former years, but, while apparently there was a little less output than in 1920, the amount *per capita* is quite up to that of last year, and the revenue collected will be about the same or possibly a little more.

The output on Ruby and Otter creeks exceeded that of last year; that on Spruce creek was about the same, but the production on the other creeks was less.

Taking the creeks in the same order as for some years past, I may say that on McKee creek the prospecting operations initiated a year ago by the Delta Gold Mines Company have been carried on throughout this year, but only on a small scale. They are still in progress. The company has located some more leases adjacent to those already held, which seems to indicate the intention of activity in the near future, but as the company's executive lives in Pittsburgh, Pa., I have not learned as yet just what is contemplated, or when.

On Pine creek from ten to fifteen men operated throughout the season from May to the end of October, with very fair returns in most cases for the time actually employed in mining. A few men are drifting on this creek this winter.

On Spruce creek from thirty-five to forty-five men were operating throughout the season and a number are drift-mining there this winter. From eight to twelve of the above number were prospecting during the greater part of the season, but those who were sluicing recovered in most cases very good returns. This was still the banner creek from the standpoint of production, having supplied about $50,000 of the total output of the camp.

On Birch creek a small force operated for a portion of the season with rather indifferent success, but next season will find them at work again.

On Boulder creek from eight to twelve men operated from May to October 4th, when operations were suspended for the season. A considerable portion of the time above mentioned was spent in working through comparatively barren ground to reach much more promising ground farther back from the creek, where next season's operations are expected to compensate for the dead-work done this year. Owing to an unfortunate condition created by the spring freshet the operators on the lower portions of the creek did practically no mining throughout the season.

On Ruby creek the Placer Gold Mines Company, under the joint management of C. E. Leonard and C. H. Titus, commenced operation on April 24th and continued until October 14th, during which period they advanced up-stream over 400 feet, with an average width of 160 feet, and moved about 45,000 cubic yards of gravel, from which they recovered about double the output of 1920 and incidentally secured a handsome profit upon the season's operations. The company had been doing more or less dead-work for two seasons past and is now realizing the benefit thereof. A force of about twelve men was employed throughout the season. This company suffered a sad loss through the death last winter of Theo M. Daulton, who installed the plant of this company and had been its manager since its formation. The camp is also the loser through the passing of this genial and highly esteemed gentleman from the ranks of the operators therein.

A number of men were prospecting on the higher reaches of this creek throughout the summer and from eight to ten are "drifting" there this winter.

On Wright creek four or five men were mining throughout the season, but I regret to say I have not had any report as to the amount of work done or as to results therefrom.

On lower Otter creek the Mines d'Otter, under the superintendence of Henri Maluin, with J. E. Moran as foreman, commenced operations on April 25th and continued until the end of October, during which period they advanced their sluices up-stream about 250 feet and moved about 200,000 cubic yards of material, but have not yet reached bed-rock, for which they are searching. This season's operations uncovered about 40,000 square feet of a hard-pan bed-rock, such as has been described in previous reports, but no satisfactory amount of gold was found thereon. Near the close of the season, however, a discovery of a stratum or deposit of really good pay-gravel on a somewhat high rim increased the season's output very materially, exceeding last year's output by from 20 to 25 per cent., and encouraging the belief that good "pay" may be recovered from rather high levels in the benches, as well as from bed-rock when they reach it. A few men are drift-mining there this winter.

On Lincoln creek no work has been reported, and so far as I know nothing has been done on this creek this year.

On Davenport creek prospecting was undertaken last winter by driving a tunnel beside and under the creek. This tunnel has been already driven several hundred feet under the creek without encountering bed-rock, but, according to the latest report received, the indications were very promising and the work is still in progress.

On Wilson creek only one or two men did anything this year, and they were prospecting.

On Feather creek two men spent most of the season prospecting, and two or three others did likewise on Slate creek, but I have not received reports from any of them.

On O'Donnel river a number of men were operating and prospecting part of the season, and at one point work of this character which was commenced nearly two years ago is still being prosecuted, but I have had no reports.

Nothing has been reported with respect to development upon Bull, Burdette, Cracker, Fox, Graham, Granite, Hemlock, Horse, Silver, Union, or Volcanic creeks during the past season, although more or less prospecting has been done on most of them.

A considerable number of the leases with respect to which arrears were consolidated last year have been allowed to lapse because the holders were unable to operate them, but nearly as many new leases have been located and are awaiting survey before being issued. It is expected such surveys will be made and the leases issued next season.

MINERAL CLAIMS.

Still another year has passed during which apparently very little has been done in the way of developing quartz properties throughout the district, apart from what was necessary to protect title.

With respect to the silver, lead, gold, and copper properties mentioned in last year's report as being situated in the vicinity of Crater creek, near Fourth of July creek, I may say that the holder of the greater portion of these properties succeeded last spring in interesting certain capitalists in the properties to the extent of sending an engineer in to look them over and do some prospecting-work, but after a few weeks' sampling-work of an apparently perfunctory nature this work was abandoned and the engineer transferred to another field of operation. The properties have since been examined by another engineer, one who has had much experience in noted mining camps where very similar conditions and formations predominated, and he has expressed himself as being very favourably impressed with what he saw, and consequently there is good reason to expect that active development will be undertaken there in the near future.

In the Rainy Hollow section of this district R. W. Wiley had a considerable force of men employed on or about the development of the *Maid-of-Erin* copper property between June and November, but owing to the condition of the wagon-road between the mine and Wells, a distance of about 30 miles, of which 12 miles are in this Province and the balance in Alaska, he was unable to prosecute development satisfactorily, and, in fact, claims to have employed a considerable portion of his force in road-making in order to enable him to transport ore out or supplies in to the mine. I have not had any report from him as to his season's operations, but I have reason to believe he had several hundred tons of bornite ore sacked ready for shipment, and that he succeeded in getting a considerable quantity of it to tide-water at Haines (Alaska),

whence some 55 tons was shipped to the Tacoma smelter. Such reports as I have been able to secure agree in stating that the mine at a depth of over 100 feet is showing up excellently.

With respect to the *Engineer* mine, I need only say that the title and ownership is the subject-matter of pending litigation and that all development is at a standstill.

As to other quartz properties throughout this portion of the district, I may say that the owners are "marking time" awaiting the outcome of the litigation with respect to the *Engineer* mine, and not much, if any, active development is likely to be undertaken until that is settled.

Nothing has been done in the way of developing the coal or hydromagnesite deposits in this district since last report.

OFFICE STATISTICS—ATLIN MINING DIVISION.

Free miners' certificates issued (individual)	320
Free miners' certificates issued (company)	4
Placer records	2
Placer rerecords (representing 176 claims)	163
Leases applied for	28
Leases issued	..
Certificates of work (leases)	202
Leaves of absence (representing 75 claims)	25
Filings (placer)	12
Bills of sale, etc. (placer)	9
Bills of sale, etc. (hydraulic)	27
Bills of sale, etc. (mineral)	9
Mineral records	52
Certificates of work (mineral)	118
Certificates of improvements	18
Filings (mineral)	7
Crown grants issued	8
Gold reported or estimated	$127,000

Revenue.

Land revenue	$ 153 00
Water revenue (rentals)	108 37
Free miners' certificates (individual)	1,466 25
Free miners' certificates (company)	350 00
Mining receipts (lease rentals)	6,593 75
Mining receipts (lease applications)	560 00
Mining receipts (other sources)	2,334 05
Receipts from all other sources	9,990 98
Total	$21,556 40

STIKINE AND LIARD MINING DIVISIONS.

REPORT BY H. W. DODD, GOLD COMMISSIONER.

I have the honour to submit herewith the annual report on mining operations in the Stikine and Liard Mining Divisions of Cassiar for the year ending December 31st, 1921.

Five new placer leases were issued during the year and the holders of mineral claims kept their assessments up.

As the report of the Resident Engineer will cover all developments during the season, I will have nothing more to add.

OFFICE STATISTICS—LIARD AND STIKINE MINING DIVISIONS.

Revenue collected from free miners' certificates	$ 492 00
Revenue collected from mining receipts	1,393 30
Revenue collected from other sources	5,008 34
Total	$6,893 64

SKEENA DISTRICT.

SKEENA AND BELLA COOLA MINING DIVISIONS.

REPORT BY J. H. McMULLIN, GOLD COMMISSIONER.

I have the honour to forward you herewith the office statistics of the Skeena and Bella Coola Mining Divisions for the year 1921.

The report of the Resident Mining Engineer fully covers the mining development for the year and I have nothing further to add to his report.

OFFICE STATISTICS—SKEENA AND BELLA COOLA MINING DIVISIONS.

Free miners' certificates issued	429
Special free miners' certificates issued	17
Mining receipts issued	125
Certificates of work issued	174
Bills of sale, etc., recorded	33
Filings	8
Certificates of improvements granted	1

Revenue.

Free miners' certificates	$2,430 75
Mining receipts	1,573 65
Total	$4,004 40

NASS RIVER MINING DIVISION.

REPORT BY JOHN CONWAY, ACTING MINING RECORDER, ANYOX.

OFFICE STATISTICS—NASS RIVER MINING DIVISION.

Free miners' certificates (individual)	259
Free miners' certificates (special)	2
Mineral claims recorded	218
Certificates of work issued	543
Bills of sale, etc., recorded	115
Filings	43
Certificates of improvements recorded	22

Revenue.

Free miners' certificates	$1,299 00
Mining receipts, general	3053 50
Total	$4,352 50

PORTLAND CANAL MINING DIVISION.

REPORT BY J. J. SCARLETT, ACTING MINING RECORDER.

I have the honour to submit herewith office statistics for the Portland Canal Mining Division for the year ending December 31st, 1921.

The report of the Resident Engineer deals fully with the mining activities in this Division during the past year.

OFFICE STATISTICS—PORTLAND CANAL MINING DIVISION.

Free miners' certificates (individual)	309
Free miners' certificates (company)	2
Free miners' certificates (special)	4
Mineral claims recorded	328
Certificates of work issued	443
Bills of sale, etc., recorded	112
Certificates of improvements recorded	63
Filings	56
Abandonments	7

Revenue.

Free miners' certificates	$1,759 00
Mining receipts, general	3,994 85
Other sources	632 50
Total	$6,386 35

QUEEN CHARLOTTE MINING DIVISION.

REPORT BY J. L. BARGE, MINING RECORDER.

I have the honour herewith to submit my annual report for the Queen Charlotte Mining Division for the year ending December 31st, 1921.

Copper Island.—Work on this property has been steadily carried on by A. Heino in a small way with very good results. It is reported that Mr. Heino has bonded his iron properties to a Vancouver syndicate.

Ikeda Mines, Ltd.—Work on this property has been in abeyance during the past year, a watchman only being maintained.

Jedway.—The *Thunder* group at Collison bay has been bonded and deals for two other properties are pending, which indicates renewed activity in this part of the Division in the early spring. Campbell & Wild have done considerable work on the *Mother Lode* and *Bank of Commerce* claims and showing up a good body of ore.

Shuttle Island.—The *Ellen* group, taken over by a Vancouver syndicate during the summer, has not been actively developed; operations are in abeyance until a final settlement is reached.

Louise Island.—The *Iron Duke* group and adjacent iron claims have had the usual assessment-work done, as well as having been surveyed, and certificate of improvements have been applied for; while opposite Louise Island, in Cumshewa inlet, preparations are being made to resume work on the *Go East* and *Homestake* groups.

South Easter mines have not been operated this year.

Blue Mule Group.—Jones, McRae & Wiggs have uncovered some very good ore in Kootenay harbour. J. H. Jones and Nels Larsen have the property leased for a term of three years and are actively engaged in development.

Gold Harbour.—T. R. Davey and Nils Persen leased the *Early Bird* group for a short term from J. McLellan and have produced very fair returns.

Black Sands.—On the east and north coast of Graham island considerable staking of the beach sands as placer leases has been in progress. Fourteen leases have been issued and four others applied for, and thorough preparations have been made for an early start on productive work early in 1922.

OFFICE STATISTICS—QUEEN CHARLOTTE MINING DIVISION.

Free miners' certificates issued	59
Mining claims recorded (quartz)	27
Mining claims recorded (placer)	4
Placer leases issued (hydraulic)	14
Placer leases applied for (hydraulic)	4
Certificates of work issued	62
Bills of sale, etc., recorded	34

Revenue.

Free miners' certificates	$ 312 25
Mining receipts	803 00
Trade licences	205 00
Firearm licences	122 50
General receipts (P.C.F.)	191 00
Liquor permits	25 00
Marriage licences	10 00
Poll-tax	10 00
Total	$1,678 75

NORTH-EASTERN DISTRICT (No. 2).

REPORT OF JOHN D. GALLOWAY, RESIDENT ENGINEER.

GENERAL REMARKS.

The North-eastern Mineral Survey District consists of Omineca, Cariboo, Quesnel, and Peace River Mining Divisions, and occupies a large portion of Northern British Columbia, having an area of nearly 100,000 square miles. The northern, western, and southern boundaries of this district are the arbitrary boundary-lines of the Mining Divisions, but these, where practicable, always follow the watersheds of the country. The eastern boundary is the British Columbia-Alberta boundary-line. The western boundary is roughly 100 miles from the Coast, while the northern and southern boundaries are about 200 miles from the respective Provincial boundaries.

For descriptive purposes in this report the district is reviewed under the main headings of the Mining Divisions, subdivided into sections as follows:—

Omineca Division—Skeena section; Hazelton section; Telkwa section; Babine section; Fraser Lake section; Manson section.

Cariboo Division—Fort George section; Vanderhoof section; Barkerville section; Cottonwood section.

Quesnel Division—Quesnel River section; Horsefly section; Keithley section.

Peace River Division.

A general description of the geographic, geologic, and topographic features of the district was given in the Annual Report of the Minister of Mines for 1917. In the following table is given a list of the more important reports on this district, in addition to which numerous references can be found in the Summary Reports of the Geological Survey and the Annual Reports of the British Columbia Department of Mines:—

Name of Author.	Publication.	Year.	Page.
Dr. Geo. Dawson	Geological Survey of Canada	1875	233
"	" "	1876	17
"	" "	1879	Pt. B
"	" "	1888	73R
Amos Bowman	" "	1887-8	Pt. C
R. G. McConnell	" "	1894	5c
W. Fleet Robertson	Minister of Mines' Report	1905	89
"	" "	1906	101
"	" "	1908	66
"	" "	1911	95
"	" "	1912	65
W. W. Leach	Geological Survey of Canada, Summary Report	1906	35
"	" " "	1907	19
"	Telkwa River and Vicinity, Geological Survey	1907	..
"	Geological Survey of Canada, Summary Report	1908	41
"	" " "	1909	61
"	" " "	1910	91
G. S. Malloch	" " "	1911	92
R. G. McConnell	" " "	1912	55
G. S. Malloch	" " "	1912	69
"	" " "	1912	103
C. F. J. Galloway	Minister of Mines' Report	1912	118
W. M. Brewer	" "	1914	101
John D. Galloway	" "	1914	176
J. D. MacKenzie	Geological Survey of Canada, Summary Report	1915	62
Chas. Camsell	" " "	1915	70
John D. Galloway	Minister of Mines' Report	1916	134
"	" "	1917	86
"	" "	1918	107
J. J. O'Neill	Memoir 110, Geological Survey	1919	..
John D. Galloway	Minister of Mines' Report	1919	96
J. C. Gwillim	Report of Oil Survey, Peace River District, B.C., Department of Lands	1920	..
John D. Galloway	Minister of Mines' Report	1920	79
John A. Dresser and Edward Spieker.	Report of Oil Surveys, Peace River District, B.C., Department of Lands	1920	..
R. W. Brock	Summary Report, 1920, Part A, Geological Survey	1920	81

SUMMARY OF MINING ACTIVITY.

In a consideration of the mining activity in the North-eastern District during 1921, it should be remembered that the year was a most depressing one for the mineral industry throughout the American continent. Low metal prices and an oversupply of almost all metals caused drastic curtailment of production everywhere. Furthermore, the financial conditions were such as to make it a most unfavourable year in which to expect an influx of capital for the acquirement of new mineral properties.

Considering these adverse influences which prevailed, the condition of the mining industry in the North-eastern District during the past year was better than might have been expected. While but little lode-mineral production was made, a substantial increase in the placer-gold output as compared with 1920 is an encouraging sign for the future. With a return to normal market conditions for the different metals, a resumption of lode-mineral shipments from the district will probably soon take place.

Development of mineral properties was proceeded with in many parts of the district and more prospectors were in the hills than for some years past. Besides the actual exploratory work of looking for new mineral discoveries, much work is done in the course of a season by prospectors on the properties that they own. In quite a number of instances of work of this nature done this summer the showings of ore have been improved and the general results obtained were satisfactory. There are now in the North-eastern District a considerable number of prospects carrying a great variety of ore and metals which should prove attractive to those who are looking for prospects that have some chance of developing into profitable mines.

Placer-mining was vigorously prosecuted in the Cariboo and the indications are that the yearly placer-gold production of that section will soon again increase to equal that of pre-war years. Particularly interesting is the reopening of the old *Bullion* mine at Quesnel Forks, which property was at one time the most important hydraulic mine in British Columbia.

The *Silver Standard* mine and concentrating-mill at Hazelton was closed all year; operations are to be resumed in January, 1922. The condition of the mine is satisfactory and the reason for closing down near the end of 1920 was owing to the difficulty of marketing silver-lead and silver-zinc concentrates.

The development of a very promising coal property on the Telkwa river was commenced during the year. This property, known as the *Betty* mine, has a thick seam of good-grade coal which will prove highly satisfactory as a steam-coal or as domestic fuel. The operations at the mine are as yet on a small scale, but once the high quality of this coal is known it will command a good market. The opening-up of a source of a steady supply of good coal will undoubtedly assist the growth and prosperity of Northern British Columbia.

So far as is known, the only ore shipments made this year were a car-load of concentrates from the *Silver Standard* (clean-up of mill-bins), a small shipment of gold ore from the *Hazelton View*, and a few tons as test shipments from different properties. The production of placer gold was $70,000, as compared with $69,000 in 1920. The coal shipments from the *Betty* mine amounted to 800 tons.

PLACER-MINING.

Mining in the North-eastern District commenced many years ago with the working in the sixties of the bonanza placer-gold fields of the Cariboo. Since that time placer-mining has been continuously carried on in the Cariboo, but, as might be expected, the yearly production has declined considerably from that of the early years. During the war years the production of placer gold still further declined, but it is apparent that an upward trend has now started, as the production is greater for 1921 than for the preceding year, and the plans now under way will undoubtedly result in a largely increased production in the future.

The easily available, rich diggings of the Cariboo District are apparently for the most part worked out, but this is a generalization which may have many exceptions, as was shown this year by the discovery of rich ground on Cedar creek, in the Quesnel Forks section. Further exploration is continually being directed in the hope of finding continuations of the old rich "leads," or portions of the leads that were overlooked by the old-timers, and a certain percentage of successes always rewards these fresh efforts. It will be seen, therefore, that the Cariboo District still has possibilities for the prospector and the small mining syndicate.

The greatest resource of placer gold in the Cariboo District, however, is in the low-grade gravels, which must be worked on a large scale by hydraulicking, dredging, or deep-drifting methods with adequate machinery. Placer-mining of this nature calls first of all for thorough testing of the ground to determine the average values; and, secondly, for plenty of capital so that the property can be properly equipped.

Besides the operating properties, there are at the present time in the Cariboo District a number of companies engaged in prospecting or equipping properties for such large-scale placer-mining. And there is still much ground left that at least warrants preliminary testing to see if it will not pay to work by dredging or other methods.

There are several reasons why placer-mining in the Cariboo District should experience a renewed impetus in the near future. In the first place, the adverse conditions of high costs without increased value of his product which militated against the gold-miner during the war years have practically disappeared. Wages and all costs are practically back to those of pre-war years. Secondly, the completion of the Pacific Great Eastern Railway into Quesnel has materially lessened freighting costs into the Cariboo. Formerly it was necessary to haul machinery and equipment from Ashcroft by wagon or motor-truck, with the result that in many cases the freight was higher than the first cost of the article. At the present time Barkerville is only 60 miles by motor-road from the railway at Quesnel, as compared with 280 miles from Ashcroft. And Barkerville is about the farthest point in the district from the railway, there being much promising placer-ground on the Fraser, Cottonwood, and other rivers and creeks only a few miles from the railway.

Another placer-gold field in the North-eastern District which attracted considerable attention at one time is what was known as the "Omineca"; this consists of the Manson and Ingenika sections of the Omineca Mining Division. Certain rich creeks in these sections were worked many years ago and intermittent mining was carried on until recent years. With the decline of gold-mining during the war years and the lack of prospectors in the hills, the district was virtually abandoned and now there is but a small production from it.

There is in this part of the Omineca Mining Division a very large area still to be thoroughly prospected for placer gold. The country lying at the headwaters of the Skeena, Stikine, and Finlay rivers should yet yield some rich placer-gold creeks, and it would not be surprising if the next placer stampede was to this section. Around the old placer-workings of the Manson and Ingenika sections there is undoubtedly much low-grade ground which would pay to work by modern methods, but the handicap of lack of transportation has so far prevented much development of this nature. At the present time the means of access to these sections is by pack-trail from Hazelton or from Fort St. James, and the distance from the railway is over 200 miles. It is obvious, therefore, that only the richest of the placer-gravels could be worked with any chance of success. The field, however, is a promising one for testing the possibilities for large-scale hydraulicking and dredging, as, if sufficient pay-ground was found, the transportation could be materially improved by the construction of a wagon-road.

LODE-MINING.

Active lode-mining in the North-eastern District has been mainly confined to the territory contiguous to the Grand Trunk Pacific Railway. While this railway was being constructed much prospecting was carried on in the Skeena, Hazelton, and Telkwa sections of the Omineca Mining Division. The railway was finally completed in 1914 and about that time the first ore shipments were made. Since that time lode-mining has gradually progressed in the district, but not quite as rapidly as had been hoped. It should, however, be remembered that the development of new mines is a slow process, especially in a country where lack of transportation is a great handicap. There are undoubtedly many prospects in this district which will repay systematic exploration, but it is a difficult matter to interest capital. In a few cases the owner of the property asks a higher purchase price than apparently any one is willing to pay, while in others the transportation problem is a difficult one to solve. During the year 1921 this district, in common with every mining district in North America, suffered more or less from the depression in mining. The great necessity for this district is to interest capital in developing the properties which are now lying dormant, and this year has been an unfavourable one for the inception of new mining business of any magnitude. A few examining engineers went through the district, but they did little in the way of acquiring property. There is

every reason, however, to expect much more activity during 1922. The *Silver Standard* mine at Hazelton, which has been closed for a year, is to be reopened in January, 1922. A number of "deals" are pending and generally the prospects for the coming year are quite bright.

PROSPECTING POSSIBILITIES.

The general statement that Northern British Columbia has vast areas of virgin ground for the prospector has been repeated many times, but it seems advisable to elaborate somewhat on the idea. In the years immediately prior to the completion of the Grand Trunk Railway there was a rush of prospectors to the mountains bordering the Skeena and Bulkley rivers and their tributaries. The country was "run over," but undoubtedly much of it was not thoroughly prospected and many spots, especially if a little distance from the main trails, were never looked at. A certain number of these prospectors staked claims and to some extent at least settled down on them to make them into mines. In certain cases the prospects justified holding and development, but in many others good prospectors were tied down to the development of property which never could prove of value. The great majority of the prospectors who first came into the country soon left it for other fields, as the true prospector is a wanderer. Since the first rush of prospectors but few others have come into the country, and in recent years prospecting in the district has been carried on practically entirely by those prospectors from the first rush who stayed in the country to hold property. While many of these men are good prospectors, their main objective is not prospecting, but the selling of the various claims they have held for years, and, furthermore, as a rule their prospecting is confined to the immediate vicinity of their holdings. What the country needs is a fresh influx of prospectors who will prospect anywhere in the district and not confine their activities to certain areas.

Outline of Promising Sections.

It will be well to analyse in some detail the district with a view to pointing out to prospectors favourable places to prospect. It has been frequently mentioned that the eastern contact-zone of the Coast mountains is in many places well mineralized. Inasmuch as these mountains extend as a series of mountain ranges from the southern boundary of British Columbia to Alaska, the eastern contact-zone is a narrow belt of country 1,000 miles at least in length. That this belt is an important mineralogical district is shown by the important mining camps situated along its course, as, for instance, Yale District, Bridge River, Skeena section, Alice Arm, Anyox, and Stewart. The Hazelton-Telkwa sections lie in the contact-zone of the Bulkley and Babine mountains some distance east of the main eastern contact-zone of the Coast mountains. Mineralogical conditions in the Babine and Bulkley mountains are somewhat similar to those of the eastern contact-zone of the Coast mountains and form a parallel belt to the east.

The eastern contact-zone of the Coast mountains in the North-eastern District is defined by the Kitsumgallum Valley trench. It must be remembered, however, that this contact-zone is an irregular and indefinite area varying greatly in width, and is always an area in which the general rock formations consist of sediments and volcanics intruded by more recent irruptive rocks, such as granites, diorites, granodiorites, and allied rocks, in the form of batholiths, bosses, and dykes.

According to our present ideas of ore-deposition, it is believed that the great majority of our metallic mineral-deposits are formed as the culminating process in the intrusion of deep-seated molten magmas upward and through the overlying rock formations. In a region, therefore, where such igneous intrusions have taken place on a tremendous scale it is to be expected that valuable ore-bodies would be found. It should be pointed out here that such ore-bodies do not necessarily occur directly at the contact of the intrusive rocks with the older rocks, but may be found at considerable distances from the contacts; and, further, that they may occur either in the older rocks or in the intrusive rocks. The *Rocher Déboulé* mine at Hazelton is an example where the ore-body occurs in the granodiorite intrusive, and the *Silver Standard* mine at Hazelton is an example of the ore-body occurring in the older sedimentary formation at some distance from any intrusive granitic rock.

In considering suitable places for prospecting, the guiding factor should be a consideration of the general geology of the area and whether or not this indicates the area to be one of possible or probable mineral occurrences.

In the North-eastern District the eastern contact-zone extends from Eutsuk lake in a north-westerly direction nearly to the Nass river, a distance of about 200 miles. This zone has been prospected at different points and in many places claims have been staked, but it will repay much further intensive prospecting. The area lying between Terrace, on the Skeena river, southerly to Tahtsa lake has never been prospected and but little is known about it.

Lying to the east of the eastern contact-zone of the Coast mountains are the Zymoetz, Rocher Déboulé, Hudson Bay and other ranges known collectively as the Bulkley mountains. These ranges consist for the most part of sedimentary and volcanic measures with cores of granitic rock. The granitic batholiths are for the most part small and form only a small proportion of the total rock formation. There is, however, plenty of evidence that widespread mineralization has followed the intrusion of the plutonic rocks and dykes.

Many parts of these ranges have not been carefully prospected, as, for instance, Porphyry creek, 20-Mile creek, and others draining the country lying between the Rocher Déboulé and Hudson Bay mountains, and also many parts of the Seven Sisters and Zymoetz ranges.

Lying to the east of the Bulkley mountains and separated from them by the Bulkley river is the Babine range. This range consists dominantly of altered sedimentary and volcanic rocks, with a small proportion of intrusive rocks. Valuable ore-bodies have been found in different parts of the range and wherever prospected there are found evidences of mineralization.

The Babine range has a length of somewhat over 100 miles, and, commencing at the Babine river, extends south-easterly to the portion of the Bulkley river that flows westerly. The southern termination of the range is indefinite, as it gradually fades away into plateau country. The whole of this range of mountains is promising country for prospecting and there are many parts of it that have not been closely examined.

Still farther to the east and north, the country surrounding Takla lake and Driftwood river is believed to be mineral-bearing. Some good specimens of native copper have been brought out of this section. This part of the district can be easily reached by water route from Fort St. James, which point is connected by motor-road to Vanderhoof, on the Grand Trunk Pacific Railway.

As has been previously mentioned, the Manson section is an old placer camp. Gold-bearing quartz veins and galena ores are reported from this section, but the distance from transportation is such that but little prospecting for lode minerals has been done.

In the Barkerville section of the Cariboo Mining Division the presence of numerous quartz veins has long been known. At different times in the last forty years attempts have been made to work these veins for their gold content, but as yet no great success has attended these efforts.

It is apparent that the gold values in these quartz veins are very irregular and spotted. But it seems quite possible that shoots of ore rich enough to mine and mill will yet be found in some of these veins. Throughout the Cariboo Division generally, and extending to the Fort George section, quartz veins occur in abundance, and while undoubtedly many of them are barren, it is possible that a small percentage of them will be found to be well mineralized. Similar quartz veins are found in many parts of the Quesnel Division.

The eastern end of the Cariboo Division contains portions of the Columbia and Rockies systems of mountains. These mountains are separated by the Rocky Mountain trench, which at this point is occupied by the Fraser river flowing north-westerly, and here the Grand Trunk Pacific Railway follows the Fraser to its headwaters in the Yellowhead pass.

In this section mica-deposits are known to occur at Tete Jaune and the occurrence of other minerals are reported, including copper and iron ores. The section is one which is virtually unprospected, and when it is remembered that it is in the Columbia system of mountains that the important mineral camps of East and West Kootenay are situated, it is apparent that there is here a large area with great possibilities of mineral occurrences.

OMINECA DIVISION.

Skeena Section.

Zymoetz River.

The Zymoetz river is an important tributary of the Skeena river, which rises in the Telkwa mountains and, flowing westerly, joins the Skeena river at Copper City, about 100 miles easterly from Prince Rupert. Many mineral claims have been staked in the mountains along the

Zymoetz river and its tributaries, and there are important deposits of iron ore and coal near the headwaters of this river.

Snowflake Group.

Late in 1920 this group of claims, owned by John Gabriel, of Copper City, was bonded by D. A. Buchanan, who represents a private syndicate. The group is situated 12 miles up the Kitnaiakwa river, a tributary stream joining the Zymoetz river 28 miles from its mouth. The claims are on Gabriel creek, about half a mile from the Kitnaiakwa river, and the total distance of the property from Copper City is approximately 40 miles.

Before anything could be done on the property it was necessary to do some trail-construction. A ferry was put in at Mile 28 on the Zymoetz river and a trail was constructed on the last 5 miles of the route into the property. This work was done by Mr. Buchanan, with a grant of $1,000 towards the cost being made by the Mines Department; this grant was made on the usual 50-per-cent. basis. The trail-work was finished in September, 1921, and shortly after Mr. Buchanan packed in supplies to carry on development-work during the winter. Development has been started with a small crew of men and it is expected that it will be continued all winter.

The showing on the property was found at the top of a small waterfall on Gabriel creek, the vein being well exposed crossing the rocky canyon of the creek. The vein really consists of a mineralization along the walls of a dyke. This mineralization is well developed on the hanging-wall side of the dyke and only slightly so on the foot-wall. On further exploration, however, it is quite possible that both walls of the dyke may be found to be well mineralized. The dyke is from 7 to 8 feet wide and strikes at S. 25° E., with a dip of 75° to 80° to the south-west. The country-rock through which the dyke cuts is red andesite and the dyke itself is diorite porphyrite.

The mineralization on the hanging-wall of the dyke consists of a partial replacement of the andesitic rock with metallic sulphides and small amounts of quartz and calcite. The metallic minerals present are arsenical iron, grey-copper, and small flakes of native silver. The total amount of metallic minerals forms only a small percentage of the total gangue. The chief value in the rock is silver, the copper content being quite low. According to Mr. Buchanan, the average values are high, quite sufficiently high to warrant the development of the property.

There is a well-defined foot-wall to the deposit, this being the wall of the dyke; but the hanging-wall is indefinite, as the mineralized gangue material gradually changes to unaltered andesite. It is assumed by Mr. Buchanan that from 4 to 6 feet in width of the deposit may be classified as ore.

As yet very little development has been done on the property. The discovery showing is naturally exposed by the creek and a large open-cut has been made on this on one side of the creek. Along the strike of the dyke no work has been done to uncover it and the only exposure of the dyke is up and down the walls of the canyon.

The development-work that is planned on the property is to crosscut by means of a tunnel from a point below the falls, which will give a depth of 50 feet or more below the outcrop of the ore-body. After the vein (dyke and mineralization) is cut there will be a good opportunity to drift on the vein in both directions and gain depth as the work proceeds.

Iron and Coal.

It was expected that some development-work would be done during the year on the limonite-iron showings and the coalfield on the headwaters of the Zymoetz river. These properties, which have been described in previous Annual Reports of the Minister of Mines, are at present held under option by A. C. Gardé. The development plans apparently did not materialize this year, but it is expected that work will proceed in 1922.

There are many claims along the Zymoetz river and a number of the more important ones have been described in the Annual Reports of the Minister of Mines. The *Dardanelle* group, 15 miles up the river, was examined this year by an engineer for the Granby Company.

Dardanelle Group.

This group consists of four claims known as the *Trail*, *Trail Fraction*, *Independent*, and *Dardanelle*, and is owned by A. Carmichael, James Crocker, and George W. Kerr. The claims are situated near the 13-Mile post on the Zymoetz River trail, some of the workings being just below the trail and the others above. There is a cabin on the property situated close to the lowest working, the elevation at this point being about 450 feet above sea-level.

The rock formations exposed on the property are greenstone (probably altered diabase) and a porphyritic felsite that occurs more or less in dyke form. Not far distant there are intrusive bodies of granodiorite. There are several outcroppings of quartz which probably represent two distinct veins, which are more or less parallel and close to one another. These veins are in several places lying in the contact between the greenstone and the porphyry and at least in one place wholly within the greenstone. The gangue is entirely quartz and the metallic minerals present are chalcopyrite, pyrite, arsenopyrite, bornite, and galena. The total amount of metallic minerals, however, forms but a small proportion of the total vein-filling. The values are apparently mainly in copper, with varying and, in places, important values in gold and silver. The lead content as a rule is unimportant.

On the lower side of the trail there is a tunnel 45 feet long, a shaft 25 feet deep, and several open-cuts which prospect different quartz-croppings. As shown by these workings, the vein or veins are from 2 to 4 feet in width and are sparingly but fairly regularly mineralized with sulphides of iron and copper. An average sample taken across 4 feet of vein on the east side of the shaft 5 feet above the bottom returned on assay: Gold, trace; silver, trace; copper, 1.2 per cent.

The workings above the trail are about 500 feet higher in elevation than the lower workings. It seems highly probable that the quartz-croppings at this point are continuations of the two veins shown in the lower openings. The showings are developed by some shallow shafts and cuts, which show the veins to have a width of from 4 to 5 feet. The most abundant sulphide noted was pyrite, which, however, does not occur in large amounts. A grab sample from the dump of a 10-foot shaft gave an assay of: Gold, 0.6 oz.; silver, 11.4 oz.; copper, 2.4 per cent.

The property is favourably situated, not too far from rail transportation, and with available water-power near by. The veins are well defined and should prove permanent. The main question is one of values, which, as shown by the present development, seem to be somewhat low. However, it is quite possible that these veins may carry shoots of ore which could be extracted at a profit. The high silica content of the ore might be useful to certain smelters as a flux, thereby ensuring a favourable smelting rate on the ore.

Usk.

In the vicinity of Usk development operations and prospecting were continued throughout the year, but no ore shipments were made. The Usk District collection of ore specimens again won the Grand Challenge cup at the Prince Rupert Fair, and the cup having been won for two years in succession, it now becomes the permanent property of Usk District.

Kitsalas Mountain Copper Co.

Early in the year this company resumed development of the No. 2 vein (blind-vein) exposed in the crosscut tunnel. This vein had been developed by a winze a few feet deep and this winze was deepened to 30 feet. The vein improved in size and values with this work, there being 5 feet of pretty well mineralized quartz at the bottom. Average assays by the management are said to show it to be a satisfactory grade of ore. As working in this winze was expensive and troublesome owing to a considerable stream of water, it was decided to run a lower crosscut tunnel so as to cut this vein at a point below the bottom of the winze. This crosscut tunnel will be about 400 feet long to strike the vein, and will give a depth of 80 feet below the top of the winze. The crosscut was started on August 1st and the work is being continued steadily. At the commencement of the tunnel a considerable thickness of surface wash had to be penetrated and for a time considerable trouble was experienced in driving through a mixture of loose sand and clay. This material flowed so readily that it was necessary to use face-boards and timber the whole drift tightly. By the middle of November the tunnel was in 130 feet and still in loose gravel. For detail descriptions of this property *see* previous Annual Reports.

Kleanza Co.

This company was primarily organized as a lumbering and sawmilling concern, but in a short time became also interested in mining activities. In 1919 the company acquired the *Golden Crown* group and carried out some development-work. Several groups of claims were then secured, extending from the *Golden Crown* group on up to the top of Kleanza mountain. A sketch-map showing the holdings of the company appeared in last year's Annual Report.

On the property held by the Company there are a large number of quartz veins which vary in width from a few inches up to 5 feet. The general formation of Kleanza mountain is grano-

diorite, which in places is somewhat basic and schistose. The quartz veins have a general strike of north-west and south-east and are therefore roughly parallel. The important sulphide minerals which are found in these quartz-filled fissures are pyrite, arsenopyrite, and small amounts of chalcopyrite. The important value is gold. The mineralization is irregular, as some of the veins are apparently barren of minerals, while others carry in places considerable amounts of sulphides. The arsenopyrite would seem to carry most of the gold, although some of it may be also in the chalcopyrite.

The work so far done consists of a number of tunnels on the *Golden Crown* group and considerable open-cutting and stripping and short tunnels on the *Valhalla* and *Kleanza* groups. Further work was carried on during the summer of 1921 with a small crew of men and stopped for the winter when the snow came.

It is hoped by the management that some of the veins will on development be found to carry shoots of ore that will pay to mine and mill. It is realized that some of the veins are barren, but others carry good values in places, and development may show a sufficient tonnage of such ore to warrant the erection of a mill.

There is a good water-power on Kleanza creek which the company has commenced to develop in connection with its sawmill, which has been erected. The mineral property of this company is conveniently located, from 3 to 5 miles from the railway, with an available water-power and plenty of timber at hand.

K. Partnership.

During the summer the "K. Partnership" (H. H. Gillson, manager) acquired a lease on the *Golden Crown* group. This property is situated near the foot of Kleanza mountain, about 3 miles from Usk, and is controlled by the Kleanza Company. A Ross mill was erected on the property by the leasing syndicate and a test run was made on ore from one of the dumps. The Ross mill is a recently patented machine designed to treat gold ore. It is in effect a grinder and amalgamator contained in a small upright steel cylinder, the grinding being done by steel balls which revolve around in a groove. The ground pulp is splashed out through openings by the rotating action of the machine. Amalgamation takes place on baffle-boards inside the machine, and, if desirable, the pulp from the machine can be passed over an amalgam-plate.

The Ross mill is made in sectional parts, so that it can be packed anywhere and used for small-scale operations. In trying out the Ross mill at the *Golden Crown* a small crusher was used for reducing the ore to ½-inch size. This crusher was much too small as it would only handle a few hundred pounds a day, whereas the mill would treat from 5 to 10 tons a day. Work was stopped by the partnership in a short time and their future plans are not known.

Information regarding the Ross mill can be obtained from J. D. Ross, 291 Dufferin Street East, Vancouver, B.C.

Kleanza Creek.

Further work was done in putting in the new piece of trail from Usk to the head of Kleanza creek during the summer. The usual assessment-work was done on a number of groups of claims in this section and some of the properties were examined by scouting engineers looking for copper properties.

Legate Creek.

The claims situated in the mountains at the head of Legate creek have not had as much attention paid to them as they would seem to warrant. A number of these showings have been described in previous Annual Reports of the Minister of Mines. The different properties are situated from 1 to 3 miles from the forks of the creek. The main trail from Pacific goes to the forks, a distance of about 12 miles, and from this point there are branch trails to the different properties. The locality is easy of access and the distance of the claims from the railway is not prohibitive.

On some of the properties quartz-filled fissure-veins occur carrying galena, tetrahedrite, pyrite, chalcopyrite, and other iron and copper sulphides. The important value is in silver and some very high-grade ore is found in places. The ore is high enough grade to stand packing out if hand-sorted, and the properties might be opened up in this way to the point where there would be sufficient milling-ore to warrant the erection of a mill.

On other properties, notably the *M. & K.*, important copper values, together with silver and lead, occur in the ore. This property with some others was taken up in 1920 by the British

Columbia Exploration Company. This company apparently lost its interests in this section through a sheriff's sale of their assets this summer.

The *Halliday* group has been further developed by the owner during the last two years and he now reports that the showing is a very promising one.

The district generally will repay systematic examination by scouting engineers.

Hazelton Section.

Silver Standard. This mine, which was closed down in October of 1920, remained closed all year. There was some possibility of the mine being reopened late in the fall, but this did not materialize. The reasons which caused the management to close down in 1920 were the high operating costs and high freight rates on concentrates, together with the lessened market price of silver, which is the most important value in the ore. Conditions now are considerably better than when the mine was closed, as silver is higher in price and there has been a considerable drop in wages and the costs of mining supplies. The high freight rates, however, still prevail, and in the case of this company shipping silver-lead concentrates to the Trail smelter and silver-zinc concentrates to Oklahoma, the amount paid out in freight is a very considerable proportion of the value of the ore. The mine is in good shape and there would seem to be every reason for expecting operations to be resumed early in 1922. A car-load of concentrates was shipped from the mill this summer representing a clean-up of odd lots around the mill-bins.

At the time of writing this (January, 1922) the mine has been reopened with a crew of about fifteen men under the superintendency of W. G. Norrie-Lowenthal, who was in charge during the previous operations. It is not expected that the mill will be started until March. Detail descriptions of this property can be found in previous Annual Reports.

Delta Copper Co. A contract for 1,000 feet of diamond-drilling on the property of the Delta Copper Company was let in the fall of 1920 to Lynch Bros., of Spokane. On account of snow it was impossible to carry out this work last winter, but as soon as practicable this summer the drilling was carried out. On the completion of the 1,000 feet of drilling all work was stopped and the future plans of the company are not known. The results obtained from the drilling have not been made public.

Thoen Basin.

One of the old highways of the country before the days of the Grand Trunk Pacific Railway and motor-roads was the Babine trail, which commenced at Hazelton and crossed through the heart of the Babine range to Babine post (Hudson's Bay Company's post), on Babine lake. Extensions of this trail served the placer-fields of the Omineca and Ingenika. This trail is still extensively used, but does not have as much travel as in former years. This trail enabled lode-mineral prospectors to prospect that portion of the Babine range contiguous to the trail, and some years ago many claims were staked in this part of the range. Many of these claims have since been abandoned, and, generally, little or nothing in the way of development or prospecting has been done in this section of the country in the last four or five years. It would seem that many of these old locations were never given proper consideration, and, inasmuch as there is evidence of widespread mineralization in this section, it is apparent that it is still a promising field for prospecting. Some of the abandoned claims may warrant development, and more intensive prospecting than was done at the time of the first running-over of the country may be well repaid by important new discoveries.

The Babine range is a well-defined range unit extending from the Babine river on the north to the westerly flowing portion of the Bulkley river on the south, a distance of about 100 miles. The range has a width varying from 30 to 60 miles. Roughly, these mountains are encompassed by the Babine and Bulkley rivers and Babine lake. The Babine range belongs to the Interior system of mountains and differs considerably from the mountains of the Pacific system lying to the west. Granitic rocks are not nearly as plentiful as in the Pacific system. So far as is at present known, the great batholithic activity of the Pacific system is represented in the Babine range only by minor batholiths, bosses, and a wide variety of dyke and apophysal forms. There

is, however, considerable similarity between the Bulkley mountains of the Pacific system and the Babine mountains. Rocks belonging to the Hazelton formation are the predominant measures in both sets of mountains, with, however, a greater development of batholithic granitoid rocks in the Bulkley mountains.

Topographically the Babine range presents considerable diversity of types. The southern end of the range merges almost imperceptibly into the Nechako plateau, while easterly from Hazelton the mountains are high, rugged, and alpine in character. In that portion of the range contiguous to the Babine trail elevations up to 7,500 feet are found and many small glaciers and snow-fields occur. Timber-line is at from 4,000 to 4,500 feet. Much country lies above timber-line and this is easily prospected, but the season is of course short, as the snow does not go off until June or July and may come again at the end of September.

The Babine trail follows the Bulkley river for a few miles after leaving Hazelton and then continues on up the Suskwa (Bear) river, a tributary of the Bulkley, to its head and then down to Babine lake. Coming into the Suskwa on both sides are a number of tributary creeks which head up into the high peaks of the Babine range, and at the heads of a number of these creeks claims have been staked. One of these creeks is known as 31-Mile creek, so named because the 31-Mile post on the Babine trail is situated about where the trail crosses the creek. The country at the head of 31-Mile creek is known as Thoen basin, named after Henry Thoen, an old-time prospector of this section. From the main trail to the head of this basin there is a branch trail 3 miles long. Thoen basin proper is a large basin at the head of the creek, which is split in two parts by a long spur running down from a high peak. Claims have been staked on both sides of the basin and over the divide and in adjoining basins at the heads of smaller creeks. All claims in this locality are commonly referred to as being situated in Thoen basin.

A trip was made into Thoen basin late in September and it had been intended to examine all the claims in that section. Unfortunately an early snowfall made it necessary to get the horses out at once and only some of the claims were examined. A deposit of low-grade copper-ore situated over the divide from Thoen basin and owned by Henry Thoen and partners was one of the properties which unfortunately was not examined. The elevation of the divide at this point is about 6,500 feet and it is a bad place to cross unless in fine weather.

There is an abundance of water-power available on various creeks throughout this section, as owing to the mountainous nature of the country the creeks descend rapidly.

True Fissure.

This property is situated on the western side of Thoen basin and extends up the steep mountain-side. It is owned by Gordon McLennan and Pete Jennings. The lowest showing is at an elevation of 5,600 feet and the upper showings are at about 6,300 feet, while the vein apparently continues above this in steep bluffs. The rock formations exposed on and near the property consist of quartzites, argillites, and tufaceous rocks of the Hazelton formation, which are intruded by a small boss of granite. This intrusive rock is a light-coloured medium-grained biotite granite and has considerably affected by metamorphic action the sedimentary measures near the contact. Dioritic dykes also cut the formation; these dykes are characterized by long crystals of feldspar.

The main ore-showing on the property is a fairly well-defined replacement-fissure type of vein which is well exposed, cropping at different points up and down the mountain-side. The vein has evidently been more of a sheared zone than an open fissure and in places the ore is "frozen" to the walls. The vein strikes north-east (mag.) and dips at 55° to the north-west. The sulphide minerals found in this vein are galena, zinc-blende, pyrite, and small amounts of grey-copper. The gangue is mostly altered wall-rock, but some quartz occurs in places. The ore in places is a brecciated mass of sulphides and fragments of more or less silicified wall-rock. The wall-rock is of variable character, depending on the particular sedimentary bed through which the vein cuts, but is generally argillitic in composition. Zinc-blende is present in considerable quantity in the ore and there is but little solid galena free from blende.

The vein, which has a width of from 1 to 2 feet, is fairly well mineralized, but, as is customary, the ore runs in shoots and parts of the vein are only slightly mineralized. Where the vein is well mineralized the sulphides are in many places confined to a band of nearly solid mineral (generally mixture of galena and zinc-blende); these bands vary from a few inches up to a foot in width.

The principal value in the ore is in the high silver content, although the lead and zinc contents are appreciable. The following table of assays gives some idea of the values:—

Description.	Gold.	Silver.	Lead.	Zinc.
	Oz.	Oz.	Per Cent.	Per Cent.
Across 1 foot at lowest showing	Trace.	20.5	Trace.	30.0
Across 18 inches of vein at highest showing on ridge	0.08	30.0	6.0	24.0
Selected ore from ridge	0.06	168.5	24.0	28.0
Selected ore from vein below tunnel	0.06	76.5	22.0	30.0
Selected ore by the owner	0.08	203.4	36.0	20.0

It will be noted that very few average samples were taken. At the present time they are not as important as are samples taken so as to represent hand-sorted ore. It would be quite impossible to ship average grade of ore from such a place as this, with shipment by pack-horses over 30 miles of trail. It is a possibility, however, that carefully hand-sorted ore would stand the transportation charges, and so a number of samples were taken to determine what the selected ore would run.

There is very little work done on the property. A few open-cuts have been made and at an elevation of 6,200 feet a tunnel has been started and faced up. But the vein is naturally exposed at a number of places up and down the mountain-side. Above the tunnel there is a good cropping of the vein on a ridge projecting out from the general slope of the mountain. Above this the vein continues, but is practically inaccessible. The highest showings on the vein contain the best ore, and it is reasonable to expect that a drift-tunnel going in on the vein would show up some good shoots of ore. The silver values in the selected ore make it a reasonable speculation to explore this vein to see whether or not it contains a sufficient quantity of this class of ore to pay to mine it.

About 500 feet north of the silver-lead vein there is another showing on this property known as the "Iron Showing." This is a sheared zone lying only a short distance from where the granite is intrusive into the older rocks. The outcrop runs up and down a steep rock gulch and shows an irregular vein from 2 to 4 feet wide, which is mineralized with arsenopyrite and pyrrhotite. Assays of this material show only traces of gold and an ounce or two of silver to the ton. There are none of the galena-zinc minerals present in this showing. There has apparently been a considerable development of iron minerals in and around the contact of the granite with the older rocks, as there is a considerable "iron-capping," which has evidently been formed by oxidation of original iron sulphides. Oxidation, however, is apparently mainly a surface phenomenon, as the sulphides are always found at or close to the surface.

This property is only about 20 miles distant from the railway, and in the event of the development warranting it, a suitable route for a wagon-road direct to the railway is available down the Suskwa river. A new piece of trail 3 miles in length would cut out the last 6 miles of the present trail. A suitable water-power could be developed on some of the near-by creeks.

O.K. Group. This group of claims is situated at the head of Thoen basin at an elevation of 5,950 feet. It is owned by Henry Thoen and partner. A short distance from the showings and at a lower elevation, at the edge of timber-line, there is a good cabin which serves as a headquarters for the owners of claims in and around the basin.

Interbedded sedimentary and tufaceous rocks make up the formation as exposed on the claims. The showings consist of small stringers which apparently follow the bedding-planes of the sediments and strike along the face of the hill; they lie nearly flat, with a slight dip into the hill. Several cuts and one 30-foot tunnel have been made to develop these showings. Most of the veins are very considerably leached out, so that the filling now consists of iron oxide, together with some lead carbonates. The tunnel cuts through one stringer about 6 inches wide, which is entirely leached and shows no sulphides. Another stringer crops out above the tunnel, but the tunnel has not been driven far enough to crosscut it. This stringer, which is about 10 inches wide, is also leached, but in places shows from 4 to 6 inches of solid galena. A sample of this solid galena assayed: Gold, 0.02 oz.; silver, 190 oz.; lead, 70 per cent. A

sample taken across 10 inches of leached vein-filling returned: Gold, 0.02 oz.; silver, 80 oz.; lead, 36 per cent.

The veins on this property show a nice quality of silver-lead ore and it is to be hoped that development will show appreciable sized ore-shoots of this kind of ore.

Babine. This claim is situated about 2 miles westerly from Thoen basin on a steep bare mountain-side at an elevation of 5,750 feet. The showing consists of a small vein occurring in quartzite striking north-east (mag.) and dipping at 65° to the north-west. The vein is from 6 to 8 inches wide and the filling is mainly arsenopyrite, together with some quartz. Average samples show that this arsenical iron carries from $5 to $12 a ton in gold values and 1 to 3 oz. of silver.

Boulder Creek.

Boulder creek rises in unnamed mountains lying to the south of Rocher Déboulé mountain and flows easterly to the Bulkley river, joining that river not far from Seaton Station, on the Grand Trunk Pacific Railway. The creek is about 12 miles in length and has a fairly rapid rise, as its head is in a basin at timber-line, while the elevation at Seaton is 1,280 feet. Claims were staked at the head of this creek some years ago, but most of them had been allowed to lapse. Very little prospecting or work of any kind has been done on the creek for some years.

Sultana Group. This group consists of four claims—the *Sultana*, *Sultan*, *Mugwump*, and *Dolores*—and is owned by A. R. Macdonald and Joseph S. Hicks. It is situated on the east side of the basin at the head of the South fork of Boulder creek. This basin is a large one, with terraced benches rising upwards. The showings are at an elevation of 5,300 feet on a flat bench well above timber-line. The rock formation at this point is a typical coarse-grained granodiorite which is intrusive into older volcanic measures. The surface outcrop of the ore-body is an iron-capping and at the present stage of development the nature of the ore-body is not clearly apparent. When the writer examined the property there was a certain amount of old snow covering the ground and it was rather difficult to size up the showing.

The ore-body may be a definite vein or sheared zone in the granodiorite or it may be of some other nature. A large open-cut 30 feet long and 12 feet deep at one end apparently crosscuts the line of strike of the ore-body, and if so, then the ore-body is of considerable size. It is possible that the ore is developed at the intersection of cross-fissures and that at this point there is a large lens of ore.

The sulphide minerals present in the ore-body are pyrite, tetrahedrite, and small amounts of galena and chalcopyrite; a few specks of molybdenite were also noted. The pyrite is present in considerable quantity and some of it may be arsenopyrite. The surface of the deposit is turned into a typical iron-capping by the oxidation of the iron sulphides, with a plentiful distribution of iron oxide scattered through decomposed granitic rock-matter. There is not any great development of quartz in the deposit, the gangue consisting mainly of somewhat altered granite.

Surprisingly good values were obtained in the samples taken by the writer, as is shown by the following list:—

Description.	Gold.	Silver.	Copper.
	Oz.	Oz.	Per Cent.
Across 8 feet near upper end of cut	0.02	29.0	1.7
Across 10 feet continuing down cut from first sample	0.06	59.0	5.2
Selected ore from two bands of sulphide in the cut	0.10	86.0	13.2
Selected ore showing grey-copper	0.06	112.0	16.0
Grab sample from dump from small cut 50 feet south-west of big cut	0.01	31.5	3.7

Lying south-west of the big open-cut there is a small hole which is supposed to prospect a continuation of the vein in that direction. This hole was full of snow, but it was apparent from the dump that most of the rock taken out in digging the hole was well mineralized and the grab sample taken showed it to be good ore.

This property has been staked for some years, but apparently very little work has been done on it. In 1920 the present owners of the property obtained trail permit for assessment-work and improved the trail going up Boulder creek. This year they did the assessment-work and tried to trace the vein on the surface. They succeeded in finding indications at a point several hundred feet to the north. The granitic rock at this point is stained with iron oxide and this may be the iron-capping lying above the vein.

The silver values in the ore are apparently mainly associated with the grey-copper. No assays were made for lead as the galena content is negligible.

This property has a very promising surface showing, and if the ore-body is continuous in length with the width and values shown in the big open-cut it may prove to be a very important find. The owners intend to do considerable development-work next year. In the meantime, however, the property may be an attractive one to some of the scouting engineers that are looking for promising prospects.

The situation of this property is a favourable one. The ore could be handled nicely by a short tram down to a point on Boulder creek, from which a good wagon-road on an easy grade could be made to the railway. The length of this road would probably not exceed 10 miles. There is plenty of timber for mining purposes close to the property and on Boulder creek and its branches a certain amount of water-power is available.

This locality is one which warrants much further prospecting than it has been given. Some years ago the country lying between Rocher Déboulé and Hudson Bay mountains was roughly prospected, but much of it was never even gone over and in recent years no prospectors have been in to it. The country is mountainous, with several creeks rising in the mountains and flowing easterly to the Bulkley river, such as Porphyry, Boulder, and Gramaphone creeks. The rock formations exposed are mainly Hazelton formation (sediments and volcanics) intruded by granites, granodiorites, and porphyries. Such geologic conditions are favourable for the occurrence of mineral-bearing deposits. Prospectors are therefore advised to consider the possibilities of this section.

Telkwa Section.

Babine-Bonanza Mining and Milling Co.

The property of this company, which is situated on the Babine Lake slope of the Driftwood Creek divide, has been under development for a number of years. The control of the company is held by James Cronin, who has actively directed the development-work. The property has been described at length in previous Annual Reports, so that the history of the early development need not be given here. Steady development of the property was again carried out during the season, a gang of about ten men being employed all summer and until late in the fall, when weather conditions became bad. The mineral-showings on this property consist of several quartz-filled fissure-veins and a contact ore-body lying between rhyolite porphyry and a black schist. The valuable minerals contained in the ore-bodies are galena, zinc-blende, and small amounts of pyrite, arsenopyrite, and tetrahedrite. In the veins the gangue is principally quartz, while in the contact ore-body there is, in addition to quartz, altered rhyolite intimately associated with the metallic minerals. Shoots of nearly solid galena and also of zinc-blende occur in all the ore-bodies, besides which there is much disseminated rock-matter carrying sulphides, which varies in value all the way from slightly mineralized rock to high-grade mill-feed.

The upper workings consist of a number of shafts and tunnels which develop certain veins and the contact ore-body down to a depth of from 150 to 200 feet. In 1919 a lower crosscut tunnel, No. 2, 225 feet below No. 1 tunnel, was started and was driven in to cut the main contact ore-body, which was accomplished in 1920.

The following information concerning the operations this year has been supplied by the company: "The chief result was the ascertaining for a certainty which of the bodies of ore found in the lowest level (No. 2 tunnel) last year constituted the main vein. When work was stopped last year there remained indications that the main vein might lie beyond the point to which this tunnel was driven up to December, 1920. This year, therefore the main tunnel was continued some distance as a crosscut through the formation which lies parallel to the main vein. A number of mineralized seams were encountered, the best at 90 feet, showing 6 to 8 inches of clean galena. Work was started later in the Junction drift, and shortly after starting a distinct improvement in that vein confirmed the belief that it is the main vein. The reason this vein in the Junction drift improved so steadily in the portion of the drift run this summer

must be attributed to getting away from the disturbed condition at the junction of this vein and the East and West veins. It is to be regretted that it was not possible to extend the work in the Junction drift to a point under the large ore-shoots on the upper levels. It would be only reasonable to expect a very good showing in view of the marked improvement in other features on this level."

As the ore developed in this tunnel is from 400 to 450 feet below the surface outcrops, there is therefore a considerable tonnage of probable ore developed in the mine. A raise through to the No. 1 tunnel would give interesting information regarding the continuity of the ore-shoots. It is apparent that this property is about ready to be equipped with machinery and a mill so as to commence its productive stage.

Driftwood Creek.

Rainbow Group.

This group of claims, owned by J. S. Kelly, S. Gazely, and R. Macklin, is situated on the east side of Driftwood creek, about 15 miles from Smithers. There is a wagon-road to within about 3 miles of the property and then a good trail that goes within half a mile of the showings. At an elevation of 4,250 feet the vein is

exposed, striking S. 55° W., angling along the hillside, with a dip of about 60° to the south-east or into the hill. The country-rock is red andesite and the vein is of the sheared-zone type with indefinite walls. The metallic minerals occurring in the vein are chalcopyrite, tetrahedrite, and a little chalcocite. The gangue is altered wall-rock, together with some calcite and siderite. At the time of examining the property a large open-cut had been made on the showing, and this exposed a width of mineralization of from 4 to 5 feet. The actual width of the vein may be more or less, as no well-defined walls were in evidence. A sample was cut across 4½ feet of the vein at this point, which returned on assay: Gold, trace; silver, 13.6 oz.; copper, 5.4 per cent. A selected sample assayed: Gold, trace; silver, 71 oz.; copper, 4.2 per cent.

No further work had been done to expose the vein at different points along the strike, but during the summer the owner has put in a good deal of time prospecting the property. He reports that he has now an excellent showing. This would seem to be a vein that warranted further exploration.

Driftwood Creek. This claim was worked during the early spring by a Smithers syndicate, the work being under the supervision of J. J. Driscoll. The claim lies to the south of the *Rainbow* group (described above). At an elevation of 3,900 feet a tunnel has been driven in 25 feet on a small quartz vein, which is well mineralized with chalcopyrite and chalcocite. Fifty feet below the upper tunnel another tunnel has been driven 75 feet, the first 35 feet of which is a crosscut and the last 40 feet a drift on the vein. Apparently this is the same vein as exposed in the upper tunnel. A selected sample taken from the dump (containing about 3 tons) at the mouth of this tunnel assayed: Gold, 0.04 oz.; silver, 47.5 oz.; copper, 14.5 per cent.

Lower down the hill there are mineralized outcrops on which little or no work has been done. One of these is from 2 to 4 feet wide and is mineralized with the usual copper minerals. It is apparently worth development.

Harvey Group. This property, which is situated on Driftwood creek, 12 miles from Smithers, has been taken under lease and bond by an Edmonton syndicate. Work was started in the spring and a crosscut tunnel commenced. This was driven 170 feet, but in that distance had not reached the vein. From a consideration of the flat dip of the vein, it was hardly to be expected that the vein would be cut before going at least 200 feet. For reasons which are not known, the syndicate stopped work, but the option is still retained.

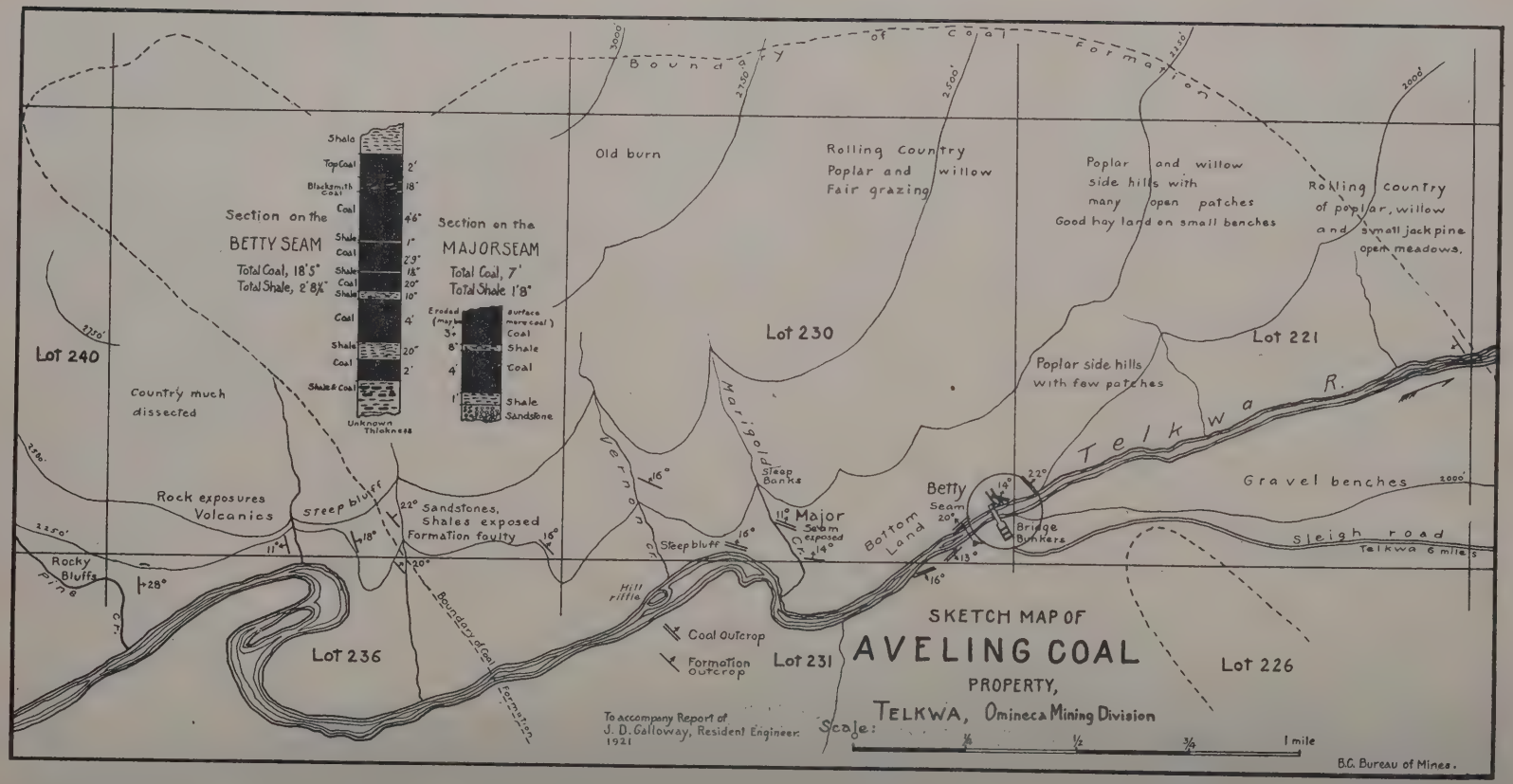
The showings on this property have been described in previous Annual Reports. The principal values in the ore are in silver, with a little copper. The veins, which are from 4 to 8 feet wide, are of the sheared-zone type and carry tetrahedrite, chalcopyrite, and chalcocite in a gangue of altered wall-rock.

Silver King Group. This property is situated at the head of Driftwood creek and is owned by Patrick J. Higgins. Last year this property was under bond to a local syndicate, but their option has now lapsed. The owner commenced a crosscut tunnel this year to tap the vein at some depth below the present drift-tunnel. The showing consists of a quartz vein carrying tetrahedrite, some native silver, and subsidiary amounts of copper-iron sulphides. The principal value is silver and some very nice assays have been obtained. The vein, which is from 6 inches to 2 feet wide, is developed by a drift-tunnel 100 feet in length.

Other Properties.—Other properties in this part of the Babine range on which the owners did work during the year were the *Victoria* group, Martin Kane's property, Simpson property, and Carson property.

Aveling Coal Property.

This property is situated on the north side of the Telkwa river, 7½ miles above the town of Telkwa. It is owned by Major Aveling and partners and Rattenbury Lands, Limited. About the end of 1920 a five-year lease on the property was obtained by Gillespie & Wilson, who formerly had been operating the property of the Telkwa Collieries under lease. The mine is connected with the shipping-point of Telkwa by wagon-road, but considerable repairs and improvements are needed on this road before it can be classed as a first-class road. At present this road is quite suitable for winter haulage on sleighs, but would require a further expenditure to make it suitable for tractor-haulage. During the year some improvements to the road were made, including a bridge across Mud creek, which was built by the Government.


Boundary of Coal Formation
3000'
2750'
2500'
2250'
2000'
Old burn
Rolling Country
Poplar and willow
Fair grazing
Poplar and willow
side hills with
many open patches
Good hay land on small benches
Rolling country
of poplar, willow
and small jackpine
open meadows.
Section on the
BETTY SEAM
Total Coal, 18'5"
Total Shale, 2'8½"
Shale
Top Coal 2'
Blacksmith Coal 18"
Coal 4'6"
Shale 1"
Coal 2'3"
Shale 18"
Coal 20"
Shale 10"
Coal 4'
Shale 20"
Coal 2'
Shale & Coal
Unknown Thickness
Section on the
MAJOR SEAM
Total Coal, 7'
Total Shale 1'8"
Eroded (may be surface mere coal)
3'
Coal
8"
Shale
4'
Coal
1'
Shale Sandstone
Lot 240
Lot 230
Lot 221
Lot 236
Lot 231
Lot 226
Country much dissected
Rock exposures
Volcanics
Steep bluff
22° Sandstones, Shales exposed
Formation faulty
Rocky Bluffs
Boundary of Coal Formation
Hill riffle
Vermont Cr.
Marigold
Steep Banks
Steep bluff
Major Seam exposed
Betty Seam
Bottom Land
Bridge Bunkers
Poplar side hills
with few patches
Telkwa R.
Gravel benches
Sleigh road
Telkwa 6 miles
Coal Outcrop
Formation Outcrop
SKETCH MAP OF
AVELING COAL
PROPERTY,
TELKWA, Omineca Mining Division
To accompany Report of
J. D. Galloway, Resident Engineer.
1921
Scale:
½ ½ ¾ 1 mile
B.C. Bureau of Mines.

Gillespie & Wilson commenced work on the property about the end of 1920 and for some months carried on development-work and made some shipments of coal. During the summer of 1921 the property was equipped with camp buildings, bunkers, and a bridge across the Telkwa river. This bridge has rails laid on it and connects with the coal tunnel, which is right on the north bank of the Telkwa river. The bunkers are on the south side of the river and the coal is trammed from the workings across the bridge to the bunkers. Shipping of coal was recommenced in the fall, but owing to bad weather and the poor condition of the road not much was accomplished until sufficient snow came for sleighing. During the month of December from 10 to 15 tons a day was shipped.

The various coal-basins on the Telkwa, Zymoetz, Bulkley, Skeena, and Kispiox rivers were all examined and reported on by W. W. Leach, of the Geological Survey of Canada, some years ago. These reports were published in the Summary Reports of the Geological Survey, 1905 to 1910, and in a bulletin entitled "The Telkwa River and Vicinity." Accompanying this bulletin is a topographic map of the Telkwa River area.

According to Leach, a number of these coal-basins hold out some promise of containing considerable tonnages of good-grade coal, while others are too small or broken up or the coal is rather high in ash content. Many of these basins represent fragments of extensive coalfields, the greater portions of which have been removed by erosion.

The geologic age of these coal-measures is placed as being Lower Cretaceous, the whole series of coal-bearing beds being known as the Skeena formation. Throughout the formation the coal may be classed as bituminous, although in places it is a high-carbon bituminous coal. Generally speaking, the coal wherever found in the Skeena formation is of good quality, except where a high ash content renders it unsuitable as a fuel. Some seams contain coking-coal, while others are non-coking.

The coal cropping on the bank of the Telkwa river on the Aveling property is known as the Betty seam, and as at present known is the most important showing on the property. There are other seams cropping which are promising, but as yet no development has been done on them; one of these is known as the Major seam, which is exposed about half a mile away from the Betty seam.

Development of the Betty seam consists of two tunnels driven in on the coal, the longest being about 100 feet in length. These tunnels are only a short distance apart, and now the taking-out of coal has connected them and opened up rooms between. The seam strikes N. 50° W. (mag.) and dips at about 14° to the north-east. By this dip the coal is rising slightly going up-stream, but the indications of coal farther up the river would indicate that the dip changes. Going northerly from the coal-outcrop there is some flat land on the river-bank, but in a short distance the ground rises in a series of benches to form a high hill.

The Betty coal-seam is exposed along the bank of the river for a few hundred feet, but is not positively identified elsewhere. The development so far is limited to the short distance proven by the tunnels, as no drilling or other deep development has been carried out. The Telkwa geologic map-sheet by W. W. Leach (Geological Survey of Canada) includes this area, and this map shows that at this point there is an area of from 3 to 4 square miles of coal formation. The position of the Betty seam and the topography of the ground would indicate that the seam would be likely to be continuous throughout a considerable portion of this coal formation. If so, then there is quite a large tonnage of coal in this property. It would be useless to give any estimate of the coal in the field at the present time and until some development-work is done. The indications are such however, that the property will warrant extended development.

Accompanying this report is a sketch-map (copy of map by F. B. Chettleburgh) and sections of the Betty and Major seams. From these sections it will be seen that there is over 18 feet of coal in the Betty seam, practically all of which could be mined free of shale and waste material. At the present time a band of coal 2 feet thick is left for the roof, as it makes a better roof than the soft friable shales. Below this top coal there is an 18-inch band of coal that is being sold as blacksmith-coal. Two main bands of coal are being worked at the present time, the top one being 6 feet thick and the bottom one 4 feet. There is coal above and below these bands and they are separated by about 4 feet of coal, in which there are some shale-bands.

The coal is of an excellent quality, as will be seen from the following table of analyses:—

Description.	Moisture.	Vol. Com. Matter.	Fixed Carbon.	Ash.
	Per Cent.	Per Cent.	Per Cent.	Per Cent.
Sample across 18 inches, blacksmith coal	1.8	31.0	63.6	3.6
Sample across 4 feet 6 inches right below 18-inch band	2.6	24.8	68.1	4.5
Sample across same 4-foot 6-inch band at another place	2.4	25.1	67.6	4.9
Sample across 4-foot band at bottom of seam	2.2	22.7	68.2	6.9
Sample across same 4-foot band at another place	2.0	22.8	67.8	7.4
Grab sample from coal-bunkers	1.8	26.4	65.9	5.9
Average of above analyses	2.1	25.5	66.9	5.5

By applying Dowling's Split Volatile Ratio to the above average analysis, the coal would be classed as a bituminous coal, but lies very close to the classification of high-carbon bituminous coal. The moisture content of these samples is probably slightly higher than will be found in the coal when at some distance from the surface. One noteworthy feature of this coal is the low ash content, which is considerably lower than that of most coals now being sold in British Columbia. It is evident from the above analyses that this coal will prove very satisfactory as a steam-coal and will also be a desirable domestic fuel. The coal has also had a fair trial in the local market and at Prince Rupert and is giving satisfaction everywhere.

About the end of the year a fault was struck in driving ahead the main tunnel and work was stopped at this point. An examination of the fault shows that it is apparently a normal fault caused by the outcropping measures slipping downhill towards the river. Such minor faults are to be expected and no difficulty should be experienced in picking up the coal again. At the present time, however, the lessees prefer to get out coal for shipment rather than to do development. When the roads get bad in the spring there will be a time that it will be impossible to haul coal and development will be resumed.

The opening-up of this coal property would be expedited by diamond-drilling and, if the results were satisfactory, the building of a branch railway from Telkwa. No such plans are, however, being considered. The lessees intend to mine coal and ship by wagon, sleigh, or tractor haulage, and to gradually develop the mine by advancing the tunnels. A good market for this coal is available at Prince Rupert, and if a better road had been made to the mine this summer a much larger tonnage of coal would have been shipped. The cost of hauling over a poor road for 7 miles leaves but little margin for mining the coal. However, it is expected that with good sleighing conditions this winter steady shipments will be made. As the lease held by Gillespie & Wilson can be terminated at any time on thirty days' notice in the event of the property being sold, there is not much inducement to them to make any heavy capital investment in road or other improvements or development.

The quality of this coal and the price that Gillespie & Wilson quote for it laid down f.o.b. the railway-cars at Telkwa is such that this coal can compete very successfully with Vancouver Island or Alberta coal. As yet, of course, the amount sent to Prince Rupert has been insignificant, but still the coal-dealers of that city are very anxious to secure a steady supply of it. It is apparent that if this coal can be mined and hauled over 7 miles of indifferent wagon-road and sold at a profit there are great possibilities for the property if opened up and equipped for large-scale mining and provided with railway transportation. In addition, a plentiful supply of good coal at a reasonable price would have a stimulating effect on all Northern British Columbia. The shipment from this mine for the year was 800 tons.

Other Coal Properties.

For detail descriptions of the Zymoetz River coalfield, Jefferson-Dockrill coalfield, Telkwa Collieries property, and others, *see* the Annual Reports of the Minister of Mines from 1914 to 1920.

Hudson Bay Mountain.

There has not been a great deal of mining activity on Hudson Bay mountain during the year 1921. The usual annual assessment-work and small-scale development-work were carried out by the owners on a number of properties.

Mamie Group.

About the beginning of December J. R. Turner returned to Smithers to resume operations on the *Mamie* group. This property is owned by J. Aldrich and in 1919 a bond on it was obtained by J. R. Turner, acting for a Seattle syndicate. Work was commenced late in 1919 and continued until about March, of 1920. Mr. Turner then left and apparently the bond lapsed through non-fulfilment of the conditions. On returning in December of this year Mr. Turner arranged an extension of the bond in a manner satisfactory to himself and Mr. Aldrich. Work was started shortly before Christmas with a crew of half a dozen men and will be continued all winter.

The property is situated on the southern slope of Hudson Bay mountain and is connected with Smithers by a sleigh-road 12 miles long. This road can be used for light wagons in the summer-time. If necessary, it can be easily improved into a good road for hauling ore or concentrates.

The showing on the property consists of a well-defined vein averaging from 4 to 5 feet in width and mineralized with zinc-blende, arsenopyrite, and in places a little galena. The development consists of surface cuts and an 18-foot shaft and a drift-tunnel driven by J. R. Turner in 1919–20. The present work is to continue this drift-tunnel, which is in about 125 feet, and also to sink at some place a winze from this drift.

Good gold values are reported from assays of the ore, besides which there is a considerable zinc content. At the end of the year it was reported that the development was proceeding favourably.

OIL.

What might be described as an "oil boom" has arrived in Northern British Columbia, and much interest is being taken in the question of possible oil-producing regions existing at different points. Up to the present time local people have been the pioneers in the different places which have been considered, but the attention of outside interests has been attracted and several "oil scouts" have made preliminary examinations.

The Kitsumgallum valley, which stretches northerly from Terrace, a town on the Grand Trunk Pacific Railway, was the scene of the first activity. This lies in the North-western Mineral Survey District, just a few miles west of the boundary-line between that district and the North-eastern District. As the area lies in Mr. Clothier's district the writer did not examine the field. The first leases in the field were acquired by C. F. Schaub, who turned them over to the Kitsumgallum Basin Petroleum Company. Up to the present time the energies of this company have been devoted almost entirely to an extensive stock-selling campaign.

Burns Lake.—At Burns Lake a local syndicate headed by D. Gerow has been actively engaged in looking into the oil possibilities of that area. The first leases were staked by Mr. Gerow on the south shore of Burns lake; later leases were staked by Arthur Wood around Francois lake, which lies 14 miles south of Burns lake, and now a large number of leases have been applied for in the Burns Lake–Francois Lake section generally.

Drilling operations were started by the Gerow syndicate during the summer with a light water-well drilling rig driven by horse-power. Before long the use of horses was given up and a 6-horse-power gas-engine was used to drive the drill. The site chosen for the drill is about 100 yards from the edge of the lake and directly opposite the town of Burns Lake (south shore of the lake). To begin with, a 4-inch casing was used, but this apparently proved unsatisfactory, as after getting down some 40 feet in the surface wash the hole was abandoned. It was decided not to resume drilling until a supply of 10-inch casing was secured. Pending the arrival of this casing an attempt is being made to sink a shaft through the surface gravels and clays to bed-rock. The depth of the surface wash covering bed-rock is not known, but it may be considerable.

Vicinity of Hazelton.—Late in the fall a large number of oil leases were staked in the Skeena and Kispiox valleys, starting from about 10 miles north of Hazelton and reaching up to the Second Cabin, a distance of some 50 miles from Hazelton. Practically all of these leases have been applied for by Hazelton people. During the first week in November an attempt was made by an oil geologist from Edmonton to examine the ground, but owing to snow it was impossible to see much. It is expected that a complete examination of the field will be made next summer.

Discussion.—Before considering the geologic evidence regarding the possibility of oil in this district generally, it will be well to state briefly the usually accepted criteria which are con-

sidered as indicating a possible oilfield. First of all, three fundamental requirements must be filled, which are: (1) A sedimentary formation which at the time of its deposition contained sufficient animal or vegetable life (or both) to be a source of oil in appreciable quantities; (2) a rock formation which is sufficiently porous to act as a reservoir for the oil; (3) a rock formation which is sufficiently impervious to liquids to act as a seal to hold the oil in its reservoir and prevent its escape to the surface.

Given these prerequisites, then comes a consideration of the possible field as regards structure, which is determined by detail geologic mapping, and this information as to structure determines the most favourable places for drilling.

A definite seepage of crude oil is evidence that the underlying rock formations contain oil.

The rock formations which have been recognized in the country stretching from Hazelton to the Francois Lake-Burns Lake section in descending time-order are:—

Quaternary	Superficial deposits	Sand, gravel, clay, etc.
Tertiary	Volcanic rocks and possibly small amounts of sediments	Principally olivine basalt, but including other volcanics, sandstones, and shales.
Jurassic to Post-Lower Cretaceous	Coast Range batholithic rocks	Granite, granodiorite, diorite, and porphyritic rocks.
Lower Cretaceous	Skeena formation	Sandstones, conglomerates, shales, and coal-seams.
Upper Jurassic to Lower Cretaceous(?)	Hazelton formation	Sedimentary, volcanic, and tufaceous rocks. Sometimes volcanics and sediments separate and sometimes interbedded and intercalated.

The above formations have been studied and in places mapped by the following officers of the Geological Survey: Dawson, McConnell, Leach, Malloch, MacKenzie, and O'Neill. It is, of course, possible that in this large expanse of country other formations will yet be identified, but for the present the only known formations are the above-mentioned ones.

The sedimentary measures in the above list are those of the Tertiary, Skeena formation and Hazelton formation. The Tertiary sediments are negligible in quantity and so need not be further considered.

The Skeena formation is the coal-bearing series of the Telkwa, Morice, Zymoetz, Bulkley, Skeena, and Kispiox valleys and of the Groundhog coalfield. It is believed to be, at least in part, conformable with the underlying Hazelton formation and is generally placed as being of Lower Cretaceous age, although fossil evidence is by no means as satisfactory as is desirable. Inasmuch as this formation is coal-bearing and as no horizons yielding a great abundance of marine fossils have been found in it, the conclusion must be that it is not a highly promising formation in which to expect that oil in commercial quantities has been formed.

The Hazelton formation has a very widespread occurrence throughout the district and undoubtedly enormous thicknesses of these rocks exist at different places. This formation, which consists of sedimentary, volcanic and tufaceous rocks, is as a rule more or less metamorphosed. It has apparently suffered some regional metamorphism, and in addition, where in close proximity to the intrusive Coast Range batholithic rocks, has undergone extreme local metamorphism. The age of this formation is doubtful, but the evidence would seem to indicate an age ranging from Upper Jurassic to Lower Cretaceous.

The sedimentary measures of the Hazelton formation are in part interbedded with the volcanic members and ash rocks, but in places there are considerable thicknesses of sediments with the volcanics entirely missing. These sediments consist of sandstones and shales, but in places they are so metamorphosed as to be quartzite, argillites, slates, etc. Plant remains are plentiful in places in these measures, but as yet no horizon containing an abundance of marine fossils has been discovered. The absence of well-preserved marine fossils throughout the Hazelton formation is conclusively shown by the inability of the officers of the Geological Survey to obtain definite fossil evidence of the exact age of this information. In this connection, however, it must be remembered that detail geologic work has only been done in certain small parts of the area under discussion. In the great thicknesses of the sedimentary members of the Hazelton formation there may well be highly fossiliferous horizons which have not yet been observed.

In the immediate vicinity of Burns lake rock-exposures are somewhat scattered, as a great deal of the surface is covered by soil, clay, etc. The rocks that are exposed would seem to be mainly Hazelton formation, with a considerable percentage of intrusive rocks in the form of dykes or stocks which may or may not also belong to this formation. The rocks believed to be Hazelton formation rocks are volcanics, tufaceous rocks, argillites, and possibly some sandstones.

In the vicinity of Francois lake Dawson classified the formations exposed as belonging to the Porphyrite series. This name described a series of dominantly volcanic rocks which form the lower horizon of the Hazelton formation. The name "Hazelton formation" was applied by Leach to replace Dawson's "Porphyrite group," the name to include the whole conformable series of volcanics and sediments.

Reviewing the available literature regarding the Burns Lake-Francois Lake area, it would seem that the rock formations of this area are mainly volcanic and tufaceous measures, with some metamorphic sediments—not a promising area, therefore, for oil prospecting.

In this connection it may be pointed out that one supposed evidence of oil in this area, which has locally been supposed to be of importance, consists of gas-bubbles rising around the shores of Burns, Francois, and other smaller lakes. It is fairly evident, however, that this gas is only marsh-gas arising from the decaying vegetation such as can be seen around almost any swamp. Thin films of iridescent iron oxide and traces of vegetable-oil on swamps similarly are not evidence of underlying oil reservoirs.

An excellent reconnaissance report on the country lying between Hazelton and the Groundhog coalfield is contained in G. S. Malloch's report on the Groundhog field in the 1912 Summary Report of the Geological Survey. From this report it is apparent that the Hazelton formation is practically continuous from Hazelton to the Groundhog coalfield, and that in places, particularly in the coalfield, it is conformably overlain by the Skeena coal-bearing series. Going northerly from Hazelton, the volcanic flows of the Hazelton formation gradually disappear, giving way to tufaceous rocks, and finally these fade out and the formation consists almost entirely of sedimentary measures. Plant remains are abundant throughout the formation and a marine horizon yielding poorly preserved fossils was recognized near the base of the upper third of the formation. Quoting from the report: "The top of the Hazelton formation in the measured section consists of grey shales with larger grains of black shaly material and often divided by thin lines of bituminous matter parallel to the bedding-planes; shales predominate throughout, and no great amount of tufaceous material is present except at the base of the section, which ended with a bed of tufaceous sandstone 40 feet thick."

From the foregoing it is apparent that in the country lying north of Hazelton to the Groundhog coalfield there is a large area of sedimentary rocks, but the question of whether or not these rocks contain any horizons which would be probable sources of oil awaits more detail examination.

For the present the question of a source of oil in the rocks of this district is the important one, as the considerations of suitable reservoir and cap-rocks are of secondary importance. It is probable, however, that such suitable containing horizons would be found. Anticlinal and dome structures are, of course, frequently observed in the formations of this district, as the mountain-building forces have produced much folding and also faulting of the measures.

So far as is known, no definite seepages of crude oil have been found anywhere throughout the district.

Fraser Lake Section.

Fraser Lake Coal.

The occurrence of coal of a lignitic variety along the southern shore of Fraser lake has been known for many years. In the summer of 1920 a number of coal leases were staked by T. J. Kettyle, covering some coal-outcrops about 2 miles from the eastern end of Fraser lake and situated close to the edge of the lake on the southern side. Owing to the coal reserve in force at that time these leases were not secured at once, but it is believed that they are now granted. A company known as the Fraser Lake Collieries, Limited, was formed to take over these leases, and some development was carried out last year and the first part of 1921. The stock of the company was subscribed for locally by residents of Endako, Fort Fraser, and other towns in the district. Mr. Kettyle has been in charge of the preliminary work of the company.

The coal formation consists of shales, some sandstone, and thin bands of lignite separated by shale-partings of varying thickness. The whole formation appears soft and crumbly and from its general appearance looks like a comparatively recent one. The bands of lignite vary from a few inches up to 2 feet in thickness, but in places there is from 4 to 5 feet of coal and shale bands bedded together.

Three shafts have been sunk, which are 28, 38, and 12 feet deep. The first two shafts pass through coal-bearing strata in which there are alternate bands of coal and black shale. The third shaft has not yet reached any coal-bands. The best section of coal which was seen in the shafts was 5 feet, of which 13 inches was shale occurring in four bands.

The following samples were taken:—

Description.	Moisture.	Vol. Com. Matter.	Fixed Carbon.	Ash.
	Per Cent.	Per Cent.	Per Cent.	Per Cent.
Across 5 feet of coal-seam, excluding 13 inches of shale	13.7	29.8	29.8	26.7
Grab sample from dump, No. 1 shaft	17.2	36.9	34.2	11.7
Grab sample from dump, No. 2 shaft	5.1	19.7	49.8	25.4

The area of coal formation exposed at this point is apparently not extensive. The railway closely parallels the lake-shore at this point and affords a good section of the formation in a number of rock-cuts. The coal-outcroppings are only a few hundred feet from the railway. To the west of the coal formation a short distance a rock-cut on the railway shows a massive granitic rock, while to the east of the showings there are basaltic dykes making intrusive contacts with the sedimentary formation. Still farther east volcanic ash and tufaceous rocks come in. The actual area of coal formation that can be seen is quite small, although the field may have an extension to the south—that is, away from the lake.

The property was examined in August and it is not known if further development has been carried out since that time. If development of the property is to be carried out, the first thing that should be done is to make a thorough geologic examination of the surface to see if the possible coal area is sufficient to justify underground development. The analyses of the coal show that on the average it would be classed as a lignite, and, further, that the percentage of ash is somewhat high.

Iron-ore Showings South of Vanderhoof.

An occurrence of hæmatite-iron ore, which had been reported to be of some importance, in the vicinity of Finger lake was examined during the field season. It is to be regretted that the size of the deposit was found to be much smaller than had been expected and that the showings are not particularly promising. The showings are situated on a small hill on the north side of Finger lake and are distant about 40 miles from Vanderhoof. The present route into this section is somewhat roundabout and consists of about 20 miles of road and about 30 miles of trail, the last 10 of which is a very indifferent one. The country is of the plateau type characteristic of the Nechako plateau. The rock formations as noted on the trail going into Finger lake are almost entirely igneous, a considerable percentage being volcanic rocks. The occurrence of iron ore, although not promising in itself, is of such a nature as to indicate that this section may have possibilities for the prospector in looking for other minerals than iron. Briefly, the iron ore occurs as hæmatite and specularite in sheared zones and is an example of the type of magmatically deposited mineral occurrence, to which type it is now almost universally agreed that most of our sulphide ore-bodies belong. Hæmatite and specularite are minerals which have been deposited under fairly high temperature and pressure conditions from aqueous and gaseous solutions. Such solutions would very possibly carry sulphides, such as galena, zinc-blende, chalcopyrite, and pyrite, which minerals would be deposited under lower temperature and pressure conditions than the iron minerals. Somewhere in the vicinity of these iron occurrences, therefore, there is a possibility of there being other mineral-deposits.

The *Iron Mountain* group of mineral claims has been located to include these iron-showings; the claims are owned by Joseph Murray, R. C. McCorkell, George Ogston, Ernie Mitchell, J. G. Watt, and Hugh Wilson. The elevation of the top of Iron mountain, which is the local name

applied to the hill on which the iron-showings occur, is 4,000 feet, while the elevation of Finger lake is 3,000 feet.

The rock formations exposed on Iron mountain consist entirely of volcanic rocks, the principal types being felsite, diabase, and andesite. These rocks are in part porphyritic and in places consist of volcanic breccias.

Sheared and sheeted zones have been developed along certain lines in these rocks, the line of strike varying from north and south to east and west. In these zones small stringers and bunches of hæmatite have been deposited, apparently by replacement action. The stringers of solid hæmatite are only a few inches wide, and in addition there is a certain amount of disseminated ore. This material, which forms a typical ore breccia, occurs in widths up to 2 to 3 feet, but is not continuous for any great length. The only other mineral seen besides hæmatite and specularite was in one place some minute cubes of pyrite. Surface cuts have been made in many places over the hill, but the general nature of the iron-showings is much the same wherever it is exposed.

The pure solid hæmatite is good-grade iron ore and free from impurities. The brecciated ore is low grade from admixture of felsitic rock and will run from 20 to 30 per cent. iron. Unless very much larger bodies of the solid hæmatite are found by further development the deposit is not of commercial importance at the present time.

The discovery of this iron was made by Joseph Murray and he has put in a good deal of time in digging holes to uncover the showings. Mr. Murray has a good cabin near the foot of Iron mountain, at the edge of the lake, and usually spends the winter in trapping in this district.

CARIBOO MINING DIVISION.

It is pleasing to be able to report that in the old Cariboo District (which includes the Cariboo and Quesnel Mining Divisions) there was no cessation of mining activity during the year 1921, and contrary to most mining districts throughout North America, an increased production was made as compared with the preceding year. The chief reason for this is that the main product of mining operations in the Cariboo is gold, and during 1921 the onerous conditions which militated against the gold-miner during the war years began to be somewhat alleviated. The result was that renewed interest in gold-mining has taken place, especially as the depressed market prices of other metals tended to discourage the mining of these metals. The full effect of lowering prices and general costs has not yet been manifested in the Cariboo District, so that it is reasonable to expect that during 1922 a further increase of production from this district will take place.

The mineral production of the Cariboo District up to the present time has consisted almost entirely of placer gold. From time to time during the last forty years efforts have been made to mine some of the quartz veins, which are very numerous in different parts of the district. While some gold has been produced in this way, none of the attempts at lode-mining have been successful in producing a mine which has continued in operation for long. Rich pockets of gold quartz have been taken out, but no continuous operation has resulted. It would appear that now is a favourable time for a reconsideration of the possibilities of some of these properties. Wages and other costs are reasonable and railway transportation is much closer than in former years. During the summer the Pacific Great Eastern Railway was completed to Quesnel and steel is laid some 18 miles northerly towards Prince George.

One of the important events of the year in this district was the reopening of the famous *Bullion* mine, which is situated a few miles from Quesnel Forks. This mine was a big producer under the management of the late John Hobson, but since about 1912 has been tied up in litigation. At one time the property was magnificently equipped with water systems and everything necessary for large-scale hydraulic operations. As might have been expected, the ditch-lines, flumes, etc., have deteriorated very considerably and some time and considerable capital will be required to re-equip the property. Reconstruction-work was started this summer and it is hoped to have the property in shape for operation during the season of 1922.

The completion of the hydraulic plant on the *Kitchener* mine on Keithley creek was accomplished during the early part of the summer and piping was carried on steadily until the freeze-up in the winter. During this season and probably part of next one drifted ground was piped, but still fair "pay" is being recovered. It is expected that when the pit advances to virgin ground some rich "pay" will be obtained.

All the usually operated hydraulic mines were worked during the season and a considerable amount of small-scale work by individuals was carried on. Testing of certain areas for dredging or hydraulic installations were carried out in certain places and in some of these the results were highly satisfactory.

The production of placer gold for the year is estimated at $67,400, which compares with $66,000 in the preceding year.

The season was a fairly satisfactory one for the hydraulic miners, for although there was a considerable dry spell in the middle of the season, when there was no water for piping, this was compensated by an extra long run in the fall, due to excessive rain and mild weather. It was, in fact, an exceptionally long hydraulic season, but operators did not secure the best results from the water owing to their fear that the rains were not going to last, and consequently preparations were not made for it.

Late in the fall considerable excitement was created by the report of a new rich strike on Cedar creek, a small stream which flows into Quesnel lake a few miles above Quesnel dam. This discovery was not examined by the writer, but under the heading of "Cedar Creek" will be found a short report by the Gold Commissioner, in which some details of the new strike are given.

Although a good deal of the Cariboo District has been fairly closely prospected for placer-ground, there is still a possibility of some rich creeks still existing which have not been discovered; and without doubt there is much virgin ground yet to be worked on the old well-known, formerly-worked placer creeks. Besides these possibilities there are large areas of low-grade ground throughout the district which will in time be worked.

Barkerville Section.

Hopp Mines. Of the placer properties controlled and operated by John Hopp in the vicinity of Barkerville, two were operated during the season; these were *Lowhee* and *Mosquito Creek*. The operations at Lowhee were more satisfactory than in recent years and a good season's clean-up was reported. At Mosquito creek the water-supply is always limited, but the long season of water helped considerably this year. Practically no work was done at Stouts gulch this year, this property being apparently about worked out. The Hopp properties were managed during the year by L. Muller.

Waverly. Piping was carried on practically continuously at this property from May until November. This is an old hydraulic mine on Grouse creek, which was reopened last year and is being worked under the supervision of C. W. Moore. The work so far done has consisted of dead-work in opening up a long bed-rock drive to attack the channel at a point considerably below the old workings. It is not believed that much return was received from the piping operations this year, but at the end of the season it was believed that the pay-channel was being reached.

Point.—This property, which is situated on Slough creek and is owned by a Chinese syndicate, was operated as usual and a satisfactory clean-up is reported.

Perkins Gulch.—This property is situated a short distance from the town of Stanley and is owned by Felker, Sparks & Fraser. They report a successful season's operations.

Other Placer Properties.—Small-scale work was carried out by J. McDougall on Devil's Canyon creek, E. L. Houser on Antler Creek, A. F. Brown on Cunningham creek, Leopold Muller on Dragon creek, Moore & Stevens on Walker's gulch, and other individuals in different parts of the section.

Proserpine Mountain.

Prospecting, assessment-work, and development of a number of the quartz properties on Proserpine mountain was carried out during the year by various owners. Seymour Baker and Saunders did considerable work on their properties.

The properties owned by Armstrong, Tregillus, and partners have not had much work done on them since the Bryce Syndicate relinquished its bond in the spring of 1920. It is believed that these properties, which have been described in detail in previous Annual Reports, would warrant further exploration, as the results attained by the Bryce syndicate were not sufficiently conclusive to definitely settle the matter. Apparently this syndicate considered that the whole veins, quartz lenses and associated schist, would have to stand up to low-grade milling

Finger Lake, Cariboo M.D.

Cedar Creek, Quesnel M.D.—Placer Claim on.

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ore, or the property was not promising enough to go ahead with. It would seem, however, that portions of the veins might pay to work and other portions are practically barren of gold values. With the favourable conditions now existing for gold-mining, an examination and thorough sampling of these properties is strongly recommended to any one looking for gold properties.

Cottonwood River.

The testing of a group of leases on the Cottonwood river which are owned by a California syndicate was commenced this year. Some pits were sunk and a drill was operated a short time. It is believed that one hole was put down with the drill, but that bed-rock was not reached. When the writer was in the district in August the work had been stopped and the representatives of the company had left. It is claimed, however, that they are satisfied with the testing carried out and that a dredge of some type will be erected to mine the ground.

Farther up the Cottonwood river, some 16 miles from the mouth and about 15 miles from Quesnel, N. G. Larsson has been engaged for the last three years in prospecting a number of placer leases. Good values are found in the surface gravels at a number of places on the property. The leases cover considerable deposits of gravel stretching for about a mile up-stream from the commencement of a rocky canyon on the river. The gravels are apparently of Post-Glacial origin and represent old bars of the river which have been more or less concentrated by the damming action of the bed-rock spur, through which the river has been forced to cut a canyon.

The work done by Larsson consists of surface pits, but owing to water it has been impossible to go down more than 6 or 8 feet in the gravel. The depth to bed-rock is unknown, but in many places it will probably be 30 feet or more. The surface prospects are sufficiently encouraging to warrant the further exploration of the ground by drilling or some other method. It is probable that the only method of working the ground would be by some form of dredging.

Peters Creek. In the fall of the year a syndicate made up of several members of the staff of the Northern Construction Company at Quesnel obtained an option on the old Mathers property on Peters creek. This property was a producer some years ago and it is believed there is much workable pay-ground in the property yet. This is a drifting proposition, the ground being reached by a shaft. Hoisting was done by a water-wheel driven by the water from the creek. The old machinery, flumes, etc., were found to be in fairly good repair and by the end of the year the plant was put in shape for operation and actual mining commenced.

The property will be worked all winter with a force of from six to eight men. About the end of January (1922) it was reported that good pay-ground had been struck and that operations were proceeding very satisfactorily.

La Fontaine. This mine is situated on Lightning creek, about 1½ miles below the town of Stanley. The property was extensively worked some years ago by means of a bed-rock shaft in the rim and bed-rock drifting below the present bed of Lightning creek. The drifts were broken through to the bed-rock gravels wherever desirable and the whole stream-bed for some distance up and down the creek thoroughly tested. At that time the property was well equipped with hoisting machinery, pumps, etc., all driven by steam.

It was finally decided that the proposition was fully tested and that the bed-rock gravels were not rich enough to work, and work was stopped. Subsequently the property was acquired by L. A. Bonner, who moved the machinery to another property he was working.

After studying the whole evidence carefully Mr. Bonner reached the conclusion that the rich lead of Lightning creek which was worked for about 3 miles (above and below the town of Stanley) would not be found in the present channel of Lightning creek at the *La Fontaine* workings. That is to say, the Tertiary channel of Lightning creek is not followed by the present channel of Lightning creek where it goes through *La Fontaine* ground. Mr. Bonner believes, and adduces considerable evidence to support his theory, that the old Tertiary channel and accompanying rich "lead" lies in the right bank of the present stream-channel. Some Keystone-drilling done by Mr. Bonner a few years ago across the supposed line of the old channel apparently shows that there is a channel at this point.

Mr. Bonner considers that if an old channel can be proven at this point it is a reasonable speculation to explore this channel by deep-drifting methods to find a possible continuation of the rich "lead" of Lightning creek. It should be mentioned here that the rich "pay" of

Lightning creek in the vicinity of Stanley was contained in a well-defined "lead," of apparent Tertiary age, consisting of highly auriferous gravel.

In order to get financial assistance in his project, Mr. Bonner finds it necessary to first of all demonstrate that there is such a channel lying under the hill and to the right of the present stream-bed of Lightning creek. Mr. Bonner therefore asked the Government to do some further Keystone-drilling to prove the correctness or otherwise of his theory regarding an old channel, but agreed to put up the entire expense of this work. In this way Mr. Bonner will secure an official report regarding his project and any possible criticism of the drilling being affected by being done by the owner will be eliminated.

Under this plan the drilling was started about the end of December. C. W. Moore, an experienced hydraulic miner and Keystone-drill operator, was placed in charge of the work at the drill. It is expected that two or three months will suffice to do the required drilling to settle whether or not there is an old channel at this point. In the event of such a channel being proven, Mr. Bonner has practically arranged for the necessary capital from England to carry out the exploration of the channel.

QUESNEL MINING DIVISION.

Quesnel River Section.

Further work was carried out this summer by the Cariboo Gold-Platinum Extracting Company on its property on the Quesnel river, situated 15 miles above the town of Quesnel. A scraper-dredge type of plant erected on the property in 1920 was operated during this summer. The work this year was more in the nature of experimental test runs to determine the efficacy of the plant to save the fine gold- and platinum-bearing black sands that occur in the gravels. Just what results were attained by the company this year are not known. S. J. Marsh is in charge of the work.

Bullion.

It has been mentioned in the general remarks that the *Bullion* mine was reopened this year. An excellent report on this property by W. Fleet Robertson can be found in the Annual Report of the Minister of Mines for the year 1902. It will be interesting to review very briefly the history of this property. Under the guidance of the late John B. Hobson, the mine was thoroughly equipped and made the most important hydraulic-mining enterprise in British Columbia. Thirty-three miles of well-constructed ditches and accompanying dams, reservoirs, and flumes comprised the water system, which was capable of delivering at the mine 5,000 miners' inches of water under a head of 420 feet. The property was worked until 1906 with Mr. Hobson in charge, when the control was taken over by the Guggenheim Exploration Company. In 1907 this company stopped operation of the mine and never resumed. In 1912, on the assumption that the property had been abandoned and therefore reverted to the Crown, it was staked by John Hopp. At about the same time the Guggenheim interests sold the property to R. T. Ward. A famous lawsuit thereupon ensued, which finally resulted in the Privy Council giving the decision in favour of Ward in 1919. In his purchase of the property and subsequent litigation Ward was backed by various interests. Later some friction and resulting lawsuits occurred between the various backers of Ward. Just how the ownership stands at present is not known to the writer, but a syndicate which apparently has possession is now actively engaged in putting the property in shape for operation.

The bed-rock tunnel which Hobson commenced in order to give better dumping facilities for the hydraulic pit is being driven ahead, and a shaft at the head of the pit is being sunk to meet this tunnel. A great deal of work will be required to put the old ditch-lines, flumes, pipe-lines, etc., into good condition again, and this work has also been started. Considerable capital is required to re-equip the property, as much deterioration has taken place during the long period of idleness. It is hoped to have the water system sufficiently repaired so that some piping can be carried on next season.

It is believed that there is still a considerable yardage of pay-gravels ahead of the old pit which can be mined at a profit.

Group. Copper Queen

This group consists of the *Copper Queen*, *Diamond*, and *Blackbird* claims and is owned by George Adams, D. D. Fraser, and Fred Gingras. The property is situated on the Quesnel river about 30 miles from the town of Quesnel; the claims being at a distance of 2 or 3 miles from the Quesnel river on the

north-easterly bank. The property can be reached by trail from Quesnel on the north side of the river, or by the Dragon Lake road to the 25-Mile ferry on the Quesnel river, and thence by trail. The last few miles to the property there is practically no trail, but it is fairly open country and a horse can be ridden almost anywhere. The nearest point to the property for accommodation is Bastion's ranch, which is about 5 miles distant down the river. The showings are on the top of a small knoll slightly higher than the surrounding country, at an elevation of 3,700 feet.

The rock formation exposed on the property is a dark green-coloured igneous rock somewhat metamorphosed which might be classified as an augite porphyrite. In this formation there is a band of schist which would seem to represent a line of shearing in the porphyrite which has caused a zone of pronounced schistosity. In this schistose zone there is a fairly well-defined quartz-filled fissure which forms the showing on the property. The schistose band is from 10 to 20 feet wide, while the quartz vein is from 1 to 2½ feet in width. In one of the showings the quartz vein is split up into a number of inch-stringers spaced through the schist.

The principal development-work on the property is a large incline shaft 20 feet deep. The vein strikes north and south (mag.) and dips at 30° to the east. The valuable minerals contained in the quartz gangue are tetrahedrite and at the surface azurite, which has resulted from the oxidation of the sulphide. A little chalcopyrite was noted in one place. As disclosed by the incline, the vein is clearly defined and varies from 1 to 2 feet in width. The following table shows the values obtained from sampling:—

Description.	Gold.	Silver.	Copper.
	Oz.	Oz.	Per Cent.
Across 2 feet of vein at foot of incline (full width of vein).	Trace.	Trace.	2.1
Across 26 inches of vein at point 10 feet above bottom of incline	0.02	16.4	4.2
Average grab sample of dump	Trace.	10.6	3.2
Selected high-grade ore; represents hand-sorted ore	0.08	44.2	12.2
Quartz from stringers on lower showing	Trace.	Trace.	*Nil.*

Samples of the schist enclosing the quartz vein showed no appreciable values. This vein crops at different points on the hill for a few hundred feet, but the best showing is at the point where the incline shaft was started.

Keithley Section.

The name "Keithley section" embraces the country lying on and around Keithley, Snowshoe, Little Snowshoe, and other creeks and Cariboo lake. Placer-mining was commenced in this section many years ago, the earliest workings being prior to those of the Barkerville section. Mining has been carried on more or less continuously ever since, but in recent years the production has been quite small. The most important workings were on Keithley creek, from which a considerable production has been recorded. Much gold was taken out of the present creek-bed of Keithley creek by cleaning up the stream-gravels to bed-rock. In addition, a high channel on the bench on the north-east side of the stream has been worked and in places yielded very rich "pay." This channel is undoubtedly an old pre-glacial channel capped over and filled in by glacial and stream gravels and talus material. It lies about 100 feet above the present creek-bed and is only a short distance away from it. This channel has been worked in a number of places, but the channel would seem to be somewhat disconnected and irregular.

Kitchener. This property is situated on Keithley creek, about a mile above the mouth. The owners were Harrison & Worth, who worked the property as a drift-digging for five or six years. In 1920 control of the property was acquired by a syndicate formed by some of the directors of the Quesnel Hydraulic Gold Mining Company. This company has been operating a large hydraulic mine at Hydraulic, on the Quesnel river, with K. C. Laylander in charge as superintendent. On acquiring the property in 1920 a small ditch-line was put on from 4-Mile creek, but little or no piping was accomplished. This year (1921) the company's plant at Hydraulic was not in operation, so Mr. Laylander took active charge of the *Kitchener* mine and equipped the property with a good hydraulic plant.

Water from Keithley creek was laid on by means of a 4½-mile ditch, which included some fluming and a siphon. The ditch from 4-Mile creek connects with the large ditch, so that an ample water-supply is assured. The water from 4-Mile creek is expected to start earlier in the spring than the Keithley water, thus giving an earlier start at piping. The plant will deliver 2,000 miners' inches of water at a head of 309 feet, but in actual operation only about 1,500 inches is being used.

The ground that is being worked on the *Kitchener* mine is part of the old pre-glacial bench channel of Keithley creek. It is ideally situated for hydraulicking, as there is a 100-foot dump into the creek from the end of the flume. The depth of ground to be worked off is from 50 to 100 feet. The rich pay-gravel is on and near bed-rock and consists of pre-glacial gold-bearing gravels. Capping this are glacial gravels and clays which may contain a little fine gold. In the drift-workings of Harrison & Worth ground running from 2 to 5 oz. to the set (8- to 10-foot caps) was taken out.

The property has been well equipped with camp buildings, shops, etc., and everything required for efficient operation. A small air-compressor supplies power for air-drills used in drilling boulders, which are then broken up by blasting. The camp is electrically lighted and powerful search-lights placed in the hydraulic pit allow of continuous operation of piping during the twenty-four hours. Keithley creek under normal conditions carries a large stream of water and, except in rare instances of a prolonged dry spell, will provide ample for water for hydraulic operations. The hydraulic season at this property should last for six or sexen months each year. Only a short flume is required to carry off the tailings, so that the expense of flume, blocks, etc., is at about a minimum. Somewhere about $90,000 has been expended in equipping the property.

The ground piped off this season was ground that had been drifted by Harrison & Worth, and large returns were not to be expected, but the pit should be advanced into virgin ground next season, when good returns are confidently expected.

Horsefly Section (Harpers Camp).

The writer did not visit Horsefly (Harpers Camp has been officially renamed as Horsefly) this year, but has heard that a certain amount of prospecting of the ground in the vicinity of Ward's Horsefly has been carried on by R. Campbell and partners. Some of this work was on the bench across the river, where the Keystone-drilling was done last year by the British Columbia Government. It is reported that fair values have been obtained, much better, in fact, than was indicated by the drilling of the ground. Values of from 25 cents to $1 a yard, as reported by Campbell, would make this good ground if it could be worked by hydraulicking or dredging. These values are reported as being found in prospect-pits that were sunk, and as such the results should be considered as decidedly encouraging. Just why the Keystone-drill results should be so much lower is not apparent, but the matter is considered of sufficient importance to the public to warrant giving all possible information bearing on the value of the ground.

Cedar Creek.

There has been some excitement created this past fall over reported finds of gold on Cedar creek. The writer has been unable to investigate these personally, but the following information is given as it was obtained from men who have been working and prospecting on the ground.

Cedar creek is a small stream which flows into Quesnel lake on the north side, about 3 miles up the lake from the old dam at its outlet, and heads near Spanish lake, but over a divide therefrom.

There is a stage-road from the main Cariboo road at 158-Mile House into Quesnel Forks, and to the old Hobson pit at Bullion, on the Quesnel river, and to the dam on Quesnel lake, while there was an old road from Quesnel Forks, on the north-east side of the river, to the mouth of Cedar creek.

From this, it will be seen, transportation to the camp is easy and reasonably cheap, as placer camps go, which should make operating and living expenses reasonable.

It is possibly too soon to predict whether the discoveries or rediscoveries in the camp will prove important channels, or whether they are only remnants of old channels.

As to the probabilities of the section: The general course of Quesnel lake is east and west, while the 5 miles of the lake from the outlet takes a sudden bend to the north-west in direct

line with the Quesnel river to the Forks, which has been gold-bearing. The old gold-bearing channel at Bullion undoubtedly followed the general trend of this part of the Quesnel river, and the Bullion pit is about midway between Cedar creek and the Forks. There is therefore a distinct possibility of there being an important old channel, following the usual south-east trend of placer-drift, possibly extending at least as far as Cedar creek.

The old dam has recently been partially blown up with dynamite and has so lowered the level of Quesnel lake, exposing a bar at the mouth of Cedar creek.

According to the statements of a syndicate which has been working at this point, they found an old channel near lake-level which was bounded on the north-east by a hard rim-rock, through which Cedar creek had broken. From this channel the syndicate brought out some very coarse gold, somewhat similar to the old Bullion product, and this channel is about on a level to coincide with the Bullion channel.

Assuming this information to be correct, it would appear possible that the supposed channel found near lake-level was of a different origin from the gold found higher up Cedar creek, and described in a report received from Mr. Dodd, the Gold Commissioner, which is given herewith. If Mr. Dodd's information is correct, it would seem that the Lyne-Platt findings have not as yet been proved as a continuing channel; but if their figures as to the product of the 50-foot cut are even nearly correct, it would show over $40 a cubic yard in this cut.

These remarks are intended to give an idea of the possibilities of the section rather than as actualities proven by the work so far done.

Following is a report by L. A. Dodd, Gold Commissioner at Barkerville, on the gold strike which was made late in the season at Cedar creek:—

"In accordance with your instructions, I left here on the morning of the November 2nd, via Quesnel for Quesnel dam, as Cedar creek runs into Quesnel lake about 3 miles above the dam. The 'discovery' is about 1½ miles up the creek on its left bank and perhaps some 700 or 800 feet higher than the lake. I found Lyne & Platt, the discoverers, on the ground, in addition to some half a dozen others. Two comfortable cabins have been erected. Mr. Lyne showed me all over their locations, including the pits where they have been working. No work was being carried on during the time of my visit, Mr. Platt being ill.

"These pits, two in number, are about 50 feet long, 4 to 5 feet wide, and less than 3 feet in depth, and from them some 60 oz. of gold had been taken out. Shortly above the second pit (from the creek) the ground takes a sharp rise, and so far no trace of the run of gold has been found in it, though a great number of holes have been sunk in all the draws in the neighbourhood. An effort to drain some of this deeper ground made by the locators on the back locations is being carried on. In digging the drain some fine gold was found until the ground commenced to get over 6 feet deep, after which no traces of gold have been discovered. This drain starts in the Lyne & Platt ground.

"All the ground is very heavily covered by second-growth timber and one could only get around by following paths cut by the prospectors and along the location-lines. I followed these location-lines back a distance of over 6,600 feet from the creek, much farther than where any work had been done, and it would appear to me that the overburden, with the exception of a short portion of the Lyne & Platt locations, runs all the way from 25 to 75 feet deep, which means that the ground cannot be worked advantageously except by hydraulicking. Lyne & Platt have been using the seepage-water for rockers. This is sufficient for this purpose for a short portion of the season only, there being practically no water when the weather is dry.

"Lyne & Platt informed me that they had been looking for the discovery since May last; Mr. Lyne, who is a native of the district, having been informed by an old-timer that gold should exist about where they found it, which is some distance above the old Cedar Creek workings. They do not consider they have made wages during the time they have been engaged in the area.

"The nearest stream of water, I am informed, which might be used for hydraulicking is Rapid river, which would necessitate a ditch-line some 12 to 15 miles in length. It would appear to me that there might also be some possibility that the ground might be dredged, provided the seepage-water could be utilized and is found in sufficient quantities to float a dredger, there being quite a large muskeg off to one side, from which Cedar creek flows.

"From inquiries made to persons conversant with the area as a whole, it appears that discoveries of similar 'spots' have been made for many years in that locality."

PEACE RIVER DIVISION.

The Peace River Division lies to the east of the divide of the Rocky mountains, and most of the area from a geologic and topographic view-point lies in the physiographic subdivision of Canada known as the Great Plains. With the exception of the small part of the Division embracing the watershed and foot-hills of the Rocky mountains, the country consists of a plateau area in which the dominant rock formations are sedimentary measures of Cretaceous age.

So far as yet reported, but few occurrences of minerals in-place are known in the Division. It is possible that in the Rocky mountains important ore-bodies may yet be discovered. The area, however, has important and valuable resources in placer gold and coal, and very probably in petroleum. These will be discussed under their respective heads.

PLACER GOLD.

For many years past it has been known that the sands and gravels of the Peace, Finlay, Ingenika, and other rivers in the Peace River Division are gold-bearing. This gold is, as a rule, fine, and some at least of it may be classified as flour gold. As would be expected, the gold content of the gravels varies greatly, and only at certain places along these rivers is the ground rich enough to be considered to be workable. There are, however, believed to be many areas in which the gold content is probably sufficient to make the gravels desirable dredging-ground. In some places natural concentrations, as on bars, etc., have been worked on a small scale with rockers by individuals, but no large production has been made. During the past few years, however, a number of companies have been testing certain areas with a view to installing dredges for working the ground, and it is expected that some of these projects will before long reach the production stage.

The Tanisto Mining and Development Company, Limited, commenced the testing of a number of placer leases on the Ingenika river in 1920 with a drilling outfit. The results were reported to be satisfactory and further work was carried on in 1921, but the results of this year's work are not known.

The Peace River Gold Dredging Company has a number of leases on the Peace river and testing of this ground has been carried out during the last two years. The results are said to have been satisfactory and the plans for putting a dredge on the property are now being considered.

Several large blocks of leases on the Peace river are held by W. A. Aubin and preparations for testing this ground are under way.

COAL.

Along the Peace river and some of its tributaries there are surface croppings of coal-seams and coal formation which indicate that there is a considerable coalfield in this section. A report on this coalfield was made for this Department in 1912 by C. F. J. Galloway and published in the Annual Report of the Minister of Mines for that year. This report shows that there are cropping out along the Peace river a number of seams of bituminous coal of excellent quality. Analyses of this coal show it to be low in ash and of a composition such as to make it a high-grade steam-coal and also suitable as domestic fuel. The seams described in the above report vary in width from 2 to 4 feet, but larger seams are known to occur in the field.

Practically no development has been done in this coalfield, as up to the present there has been no inducement to do so. Without railway transportation there is, of course, no market for this coal and the development of the field must wait until at least railway-construction is definitely assured. The field is, however, a valuable potential asset and will probably be developed in the near future.

OIL.

During recent years much interest has been aroused over the oil-producing possibilities of the Great Plains, and much exploratory work has been carried out by various companies and individuals and also the Geological Survey of Canada. The Imperial Oil Company has been particularly active in this work and has spent much money in geologic exploration and mapping and well-drilling at various points stretching from the International Boundary-line to Fort Norman, on the Mackenzie river.

While primarily this work commenced in Alberta, it was not long until it was recognized that the Peace River Division of British Columbia presented very considerable promise of success in oil exploration. The Cretaceous and underlying formations are believed to have horizons which may contain oil in commercial quantities, and generally the prospects are as favourable as anywhere in the Great Plains.

The need for geologic information was recognized by the British Columbia Government, and so in 1919 the late Professor J. C. Gwillim was engaged to make a geologic reconnaissance of a portion of the Peace River Division. The report by Professor Gwillim was published in a bulletin entitled "Report of Oil Survey in the Peace River District, 1919." It should be explained here that in British Columbia all coal and oil lands are administered by the Department of Lands and not by the Department of Mines.

In 1920 the oil investigation was continued, certain areas designated by Professor Gwillim being examined in greater detail. This work was done by John A. Dresser and Edmund M. Spieker, and the results are contained in a bulletin entitled "Report of Oil Surveys in the Peace River District, 1920," issued by the British Columbia Department of Lands.

As a result of the reports by Dresser and Spieker it was decided to test certain promising points by diamond-drilling. Such drilling was expected to give important information relative to the formations at these points, depth to certain horizons, and some criteria regarding the presence or otherwise of oil and gas. This drilling was done during the summer of 1921, but as yet no results have been given out.

Late in the year a well being drilled at Rolla, B.C., by the Imperial Oil Company penetrated a formation carrying natural gas and a heavy flow of gas under considerable pressure is now coming from the well. The officials of the company consider this a highly favourable indication and are confident of finding oil in quantity in the lower horizons.

Most of the exploratory work for oil in the Peace River Division has been done in that portion known as the Dominion Peace River Block. In this block the surface land rights are controlled by the Dominion Government, but all mineral rights, including coal, oil, and natural gas, are controlled by the British Columbia Government.

There is a large area in the Peace River Division and in the Liard Division, lying to the north, in which the possibilities of finding oil are favourable and undoubtedly much exploratory work will be carried out in the near future.

CARIBOO DISTRICT.

CARIBOO MINING DISTRICT.

REPORT BY L. A. DODD, GOLD COMMISSIONER.

I have the honour to submit herewith the office statistics for the year ended December 31st, 1921.

OFFICE STATISTICS—CARIBOO MINING DIVISION.

Free miners' certificates issued	211
Mineral claims recorded	93
Certificates of work ("Mineral Act")	62
Placer claims recorded and rerecorded	46
Leaves of absence	11
Powers of attorney recorded	141
Applications for placer-mining leases	177
Placer-mining leases issued	117
Certificates of work ("Placer-mining Act")	100
Conveyances and agreements recorded	125
Leases in force	326

Revenue.

Free miners' certificates	$ 1,550 00
Mining receipts, general	17,223 19
Other sources	1,363 85
Total	$20,137 04

OMINECA AND PEACE RIVER MINING DIVISIONS.

REPORT BY STEPHEN H. HOSKINS, GOLD COMMISSIONER.

I have the honour to forward herewith the office statistics for the Omineca and Peace River Mining Divisions for the year ending December 31st, 1921.

OFFICE STATISTICS—OMINECA AND PEACE RIVER MINING DIVISIONS.

Free miners' certificates (ordinary)	602
Free miners' certificates (company)	7
Free miners' certificates (special)	5
Mineral claims recorded	228
Certificates of work issued	628
Placer claims recorded	5
Bills of sale, mining agreements, etc.	150
Powers of attorney recorded	43
Mining documents filed	44
Certificates of improvements recorded and issued	15
Crown grants of mineral claims issued	15
Applications for placer-mining leases (Omineca Division)	5
Applications for placer-mining leases (Peace River Division)	42
Placer-mining leases issued (Omineca Division)	5
Placer-mining leases issued (Peace River Division)	27

Revenue.

Free miners' certificates	$10,875 55
Mining receipts	3,853 00
Total	$14,728 55

QUESNEL MINING DIVISION.

REPORT BY R. M. MCGUSTY, MINING RECORDER.

I have the honour to submit herewith my report on mining operations in the Quesnel Mining Division of the Cariboo District for the year ending December 31st, 1921.

As in the past, the Resident Mining Engineer is forwarding a report on the various properties throughout this Mining Division.

The improvement in the general outlook for mining in this Division has been more than maintained during the year under review; the placer strike on Cedar creek being to a certain extent responsible for this. Interest, however, in other sections of the district has also been displayed, noticeably in the Keithley and Horsefly placer-gold areas.

The number of applications for mining leases shows a steady increase, being far in excess of any previous year.

OFFICE STATISTICS—QUESNEL MINING DIVISION.

Free miners' certificates issued	179
Mineral claims recorded	17
Certificates of work issued	4
Placer-mining records	10
Placer-mining rerecords	10
Powers of attorney recorded	48
Bills of sale and mining documents	3
Mining-lease applications	91

EASTERN DISTRICT (No. 5).

REPORT BY A. G. LANGLEY, RESIDENT ENGINEER.

(Reports marked * are by B. T. O'Grady, Assistant.)

INTRODUCTORY REMARKS.

The sudden depression in metal prices had a serious effect on many of the principal silver-lead producers, especially in the Slocan, where they had hardly recovered from the "tie-up" caused by the O.B.U. strike of last year.

Many properties throughout the district were forced to temporarily suspend operations, while others were either leased to small operators or continued development on a reduced scale pending more favourable market conditions.

The low price and lack of market for lead and zinc eliminated to a large extent the mining of low-grade ores.

The price of silver, which during the first six months of the year hovered around 59 cents an ounce, began to show strength in July and gradually increased up to 71 cents in October.

In September the Consolidated Mining and Smelting Company of Canada, Limited, called a meeting of the mine-owners at Nelson, at which general conditions appertaining to mining and smelting rates were the chief matters discussed. As a result of this meeting the company decided to make the terms of payment for ores received more acceptable to the mine-owners, and at the same time remodelled their Schedule C. This action of the company, together with the more healthy tone of the silver market, tended to stimulate mining and create a more optimistic sentiment among the silver-lead operators than existed earlier in the year.

Mining activities of leasers, prospectors, and small operators seem to have been on the increase during the last few years and no marked falling-off was noticeable this year; in fact, there has been an increase in gold-prospecting.

The outstanding and surprising feature of the year, in view of the adverse market conditions, is the record production of lead and zinc by the Consolidated Mining and Smelting Company's smelter and refinery at Trail, where over 400,000 tons of ore has been treated during the year. The bulk of this immense tonnage was produced by the *Sullivan* mine. This achievement was made possible by the ability of the company to finance the carrying of large accumulated metal stocks and to improvements in the metallurgical treatment of the complex *Sullivan* ores.

The resultant benefits to the district of maintaining this production have been manifold. Some 2,000 men have had steady employment at the smelter and company's mines, the independent shippers have been afforded smelting facilities, and the numerous dependent communities have been sustained. This is a very pleasant contrast to the conditions prevailing at some of the large mining centres in the United States.

The sensational strike of high-grade gold ore at the *I.X.L.* at Rossland is reminiscent of the early days of the camp, and will no doubt attract attention to other properties which have been lying dormant for a number of years.

The successful application of the flotation process by L. H. Biggar at the *Ottawa* mine to low-grade silver ores suggests greater possibilities for many of the "dry-ore" properties.

Men have been plentiful in the various camps and wages have decreased. In the Slocan miners are getting $4.50 and muckers $4 a day. The production of coal from the Crowsnest collieries shows a slight decrease as compared to that of last year. The cause is attributed principally to lack of demand, the mines having only averaged about 75 per cent. of their working-time.

During the early part of the year a series of lectures on geology, ore-deposits, and mineralogy were given at various mining centres. In this work the writer was afforded the hearty co-operation of the prospectors' associations.

In conclusion, the writer wishes to acknowledge the assistance and courteous treatment received from the mine-owners, prospectors, and members of the Geological Survey.

EAST KOOTENAY DISTRICT.

GOLDEN MINING DIVISION.

The principal producer of this Division—namely, the *Monarch* mine at Field—was not operated this year owing to the unfavourable conditions governing the market for lead ores.

Among prospecting activities it is interesting to note that the gold-quartz properties situated at the head of the Middle fork of the Spillimacheen river, and which have been lying idle for a number of years, again received attention. W. Orville Young had a few men working during the season on the *Boston* and *International* groups.

Some very fine specimens of talc were brought in from Vermilion creek, and it was reported that the claims were bonded to a company which intended to work them, but no authentic information is available at the time of writing.

Wolverine.

This property is owned by P. Bergenham, of Golden, and is situated near the headwaters of Moose creek at a distance of about 24 miles from Leanchoil Station on the Canadian Pacific Railway. For the first 11 miles the trail follows the old wagon-road built along the north side of Beaverfoot valley. This road was constructed many years ago to serve the *Shining Beauty* mine on Ice river. The country traversed by the trail up to Moose creek is timbered with a scrubby growth of jack-pine and balsam, which makes the trip somewhat monotonous, as little of the surrounding country can be seen.

The scenery at the head of Moose creek is typical of the Rocky Mountains. Some of the peaks, exhibiting great thicknesses of thinly bedded sedimentary rocks lying almost horizontally, seem to have been thrust upwards *en bloc*, leaving precipitous bluffs thousands of feet high, while the intervening talus-covered slopes pitch at a steep angle towards the valleys.

The area is composed of rocks belonging to the Upper and Lower Cambrian age, consisting principally of limestones. No igneous rocks were noticed.

Copper occurs as chalcopyrite in a vein which strikes in a direction of S. 55° E. across a steep hillside towards the summit of the ridge. Values found near the surface and the persistency of the vein encouraged prospecting, in hopes of finding ore in quantity. So far very little work has been done, but from what could be seen the vein is apparently a fissure cutting the formation and formed along a line of shearing.

At an elevation of 7,400 feet, or 2,200 feet above the valley-floor, several shallow open-cuts have been dug in the steep talus-covered slope of the mountain. The width of the vein-matter exposed is 6 feet, lying between limestone and a brecciated mixture of quartz and calcite on the hanging-wall side. The dip of the vein is almost vertical. The ore, consisting of chalcopyrite in a lime and quartz gangue, forms a band of about 1 foot in width. A sample of the best grade ore at the lower cut ran: Gold, trace; silver, 0.3 oz.; copper, 3.87 per cent.

A number of other prospects in this section of the Rocky mountains are described by John A. Allan in Memoir No. 55 of the Geological Survey. In this memoir will also be seen a description of the sodalite-deposits on Ice river at a short distance from the end of the old wagon-road. Its beautiful blue colour makes its an attractive stone for interior decorations.

The Yoho Mining Company, of Claresholm, Alberta, employed a few men during the summer on its property at Ottertail river. The claims, which include the *Sunday*, *Monday Fraction*, *Yvonne*, and *Empire*, are situated at about half a mile up the river from the railway and are easily accessible by wagon-road from Field. Little bunches and veinlets of ore have been found to occur irregularly in the soft stratified clays and shales which form high banks on either side of the river at this point. This formation would appear to be of recent origin, probably belonging to the glacial period.

The old workings, consisting of a 75-foot tunnel in the upper part of the bank and a 70-foot shaft sunk near the river-level, are both caved in. The dump of the tunnel indicates that it must have been driven in surface wash for almost its entire distance.

A few tons of ore is said to have been extracted from the bottom of the shaft and shipped to the smelter. A little ore, which had been left near the top of the shaft, consisted of galena and zinc-blende in a calcite gangue, a sample of which assayed: Gold, 0.01 oz.; silver, 5.2 oz.; lead, 25.7 per cent.; zinc, 17.8 per cent.

The latest work consists of a tunnel run in the direction of N. 15° W. for about 125 feet in a clay-like formation. At a distance of about 75 feet in there is an inclusion of white fluorspar, with which is associated a little galena and zinc-blende.

The formation is not the kind in which such minerals as above described are expected to be found, and the mere fact of finding ore at all is what impressed the writer more than anything else. The only conclusion that can be arrived at is that it is not in-place. Spending money on further prospecting would appear to be highly speculative.

Maud S.* This claim, owned by T. H. Bingham, of Parson, is situated on the northern side of Crystal creek, near the summit of the precipitous divide separating that creek from Vermont creek, about 26 miles by trail from Carbonate Landing on the Columbia river. The formation consists of schists, slates, and conglomerates dipping flatly into the mountain.

Briefly, there is a strong surface showing of galena (disseminated through quartz) in the face of a bluff at an altitude of about 8,300 feet. The bluff rises almost perpendicularly for several hundred feet above a small glacial basin, making the exploitation of the outcrop exceedingly difficult and even an examination a hazardous undertaking.

The ore-showing is apparently connected with a quartz-filled fissure-vein, which, at the bottom of the bluff, can be seen cutting nearly vertically across the sedimentaries towards the north-west. A grab sample of broken ore gave: Silver, 17 oz.; lead, 30 per cent.; zinc, 0.5 per cent.

WINDERMERE MINING DIVISION.

Paradise. A small crew of men has been employed during the season. Shipments were confined to only the highest grade of ore owing to the low metal prices. The tonnage produced will approximate 500 tons for the year. During the summer months the ore is hauled from the mine to the railway at Invermere by a White truck; the total distance from the mine being about 18 miles, while the difference in elevation between it and the shipping-point is about 5,000 feet.

Mineral King. W. L. Smith employed a small crew of men during the season at development and sacking ore from the surface diggings. A good cabin has been built, affording accommodation for eight or ten men. Since the property was examined last year a long open-cut driven in an easterly and westerly direction across the mineralized zone exposes nice showings of ore at intervals across a width of 86 feet. The old tunnel driven into the hillside at a depth of 34 feet below the bottom of this open-cut does not thoroughly explore the mineralized zone, and more drifting and crosscutting should be done.

A 34-foot drift driven last year in a westerly direction from the main tunnel developed ore for nearly its entire length, which shows in the roof as bunches and disseminations of galena associated with small percentages of zinc-blende and iron pyrites. The width of this ore could not be determined as the south side of the drift was in the vein.

The ore-body is not well defined, the whole rock-mass being shattered and sheared, in which ore occurs as irregular bunches and filling gash-veins. By following the direction of the shearing and crosscutting at intervals the best results from further development might be expected. A grab sample taken from ten sacks of sorted ore ran: Gold, 0.04 oz.; silver, 12.3 oz.; lead, 26.1 per cent.; zinc, 6.8 per cent. A sample of broken ore from the face of the West drift gave: Silver, 3.6 oz.; lead, 5.6 per cent.; zinc, 2.2 per cent.

The dump material, which consists of a mixture of ore and waste, probably contains about 200 tons of mill-feed. A sample taken at random over the surface of the dump, of the best grade of ore that might be expected for mill-feed, ran: Gold, 0.02 oz.; silver, 12.1 oz.; lead, 20.2 per cent.; zinc, 21.7 per cent. A number of other samples taken along this drift give an average value of: Silver, 5.5 oz.; lead, 6 per cent.

The recent work done under the present management has certainly improved the appearance of the property and further systematic development would seem to be fully justified.

For further previous references see Minister of Mines' Report for years 1898, 1915, and 1920.

Bear Group. This property, consisting of five claims, is situated on the same hillside and at a distance of about half a mile from the last-mentioned property. A few shallow surface diggings expose the presence of a small quartz vein mineralized with galena, zinc-blende, and a little grey-copper. The vein follows the summit of a

limestone ridge. Further work in the nature of crosscutting may reveal the presence of more ore at a depth. Prospecting was being done under the direction of W. L. Smith.

A sample of carefully sorted ore ran: Gold, 0.01 oz.; silver, 27.5 oz.; lead, 21.7 per cent.; zinc, 1.1 per cent.

Bunyan. Work was continued at this property during the season under the supervision of E. J. Fader. At the time of examination in June a lower crosscut tunnel had been driven for a length of 285 feet in a schist formation. No ore had been encountered, so it was decided to raise in the hope of encountering the ore exposed in the level 128 feet above. This upper level is now completely caved in and the rock in its vicinity is shattered and broken as a result of a big blast which was exploded last year. Barytes outcrops along the upper part of the bluff and it is possible that further prospecting might open up a considerable tonnage, which could be mined cheaply.

Among other properties on which prospecting-work was done are the *Bald Eagle*, on Slade creek, of which John Burman is the principal owner; the *Isaac*, on No. 3 creek, owned by H. E. Forster and recently bonded to W. D. McMillan; and the *Silver Spray*, on Copper creek, owned by Murdock McLeod.

FORT STEELE MINING DIVISION.

Sullivan. The production of this mine has been maintained this year to meet the requirements of the company's smelter at Trail and shows an increase over that of last year. Development and exploratory work with the diamond-drill has been systematically proceeded with.

The long adit-tunnel driven from Mark creek is now in over 9,000 feet. From this level the vein is developed at a depth of 1,500 feet on the dip, which averages about 20° to the east. The direction of the tunnel is N. 3° E. and parallel to the strike of the vein. It has been driven in the foot-wall and lies about 40 feet below the vein. Where ore has been encountered crosscuts have been run to the vein at intervals of 120 feet and a raise driven half-way between each pair of crosscuts.

In order to facilitate the drawing of ore as the stoping proceeds upwards, a parallel tunnel has been driven for a distance of 700 feet and at 200 feet west of the main tunnel. From this tunnel raises will be driven to tap the ore-body, the first one of which was just breaking through at the time of the writer's visit in October. The workings of this level are connected by a raise 761 feet long with the upper workings.

Owing to the flatness of the dip, conditions have not been found favourable for mining on the shrinkage system, as the ore will not run on the foot-wall; hence some method had to be evolved whereby a large tonnage could be economically handled. It would seem that the problem had now been solved to a very large extent by the employment of drag-scrapers in the stopes, two of which are now installed in the large stope of the southerly ore-body.

A 25-horse-power double-drum hoist is set up at the bottom of the stope and the haulage-cable is passed through a snatch-block secured to a ring or cable strung along the top of the stope. A heavy steel-pronged scraper is dragged up and down the foot-wall, bringing on its downward trip anywhere from 2 to 10 tons.

The southerly ore-body as developed from the adit level is situated at a distance of about 7,000 feet from the portal. The width of the vein and its dip vary; this is due to heavy rolls in the walls; at the northerly end of the stope it shows a width of about 30 feet, representing a width of 80 feet where it is cut obliquely by the sill-floor of the stope. The chambers of the stope can best be described as huge underground quarries, in which a pile of 21,000 tons of broken ore seems to take but little room, while to reach the upper faces a little underground mountain-climbing is necessary.

The southerly margin of the north ore-body has been encountered near the end of the adit-tunnel, and at this point the vein swings to the west, so that the direction of the tunnel had to be changed accordingly to avoid running in ore, which was not desirable. Between the north and south ore-bodies there is an iron-sulphide zone corresponding to that on the upper level. On this lower level it is composed of pyrrhotite.

At the upper workings mining is being principally confined to stoping between the 1,000-foot and 1,100-foot levels. The ore is transported to the railway by aerial tram. These workings at present constitute a separate mine, with camp buildings complete.

The outcroppings of the vein on the hillside above the 1,000-foot level, though strong, are not as big or continuous as might be expected for ore-bodies of such vast dimensions.

The total output of the mine for the first ten months of the year was given as follows: Zinc ore, 236,612 tons; lead ore, 54 tons. Between 200 and 300 men are steadily employed.

Among the recent improvements a new camp-site has been laid out on a flat bench at a short distance from the portal of the low tunnel and a few neat buildings have already sprung into existence. The mine equipment is up to date, excellent accommodation has been provided for the men, and an air of efficiency prevails throughout.

Frequent references have been made to this property in previous Annual Reports, while the geology of the area and ore-deposits are described by S. J. Schofield in Memoir No. 76 of the Geological Survey.

PERRY CREEK.

A trip was made up this creek during the latter part of July; unfortunately, owing to unforeseen circumstances, time only allowed the examination of several properties. The area, however, has not been neglected by mining engineers and geologists, while reports on various properties may be referred to in the Minister of Mines' Reports and in Memoir No. 76 of the Geological Survey.

The creek is approximately 20 miles long and empties into St. Mary river at a point about 8 miles north-west of Cranbrook, from where a wagon-road leads to within 7 miles of its head.

Around the head of the creek the summits are rounded and present a fairly even skyline, while the hill-slopes are well covered with detritus supporting a heavy growth of timber. Erosion by glaciation is pronounced and has no doubt been the chief factor in accounting for the concentration of gravels lower down the creek.

Near the headwaters the valley widens, forming a basin-like depression, which suggests that at one time it was either filled by a glacier or small lake. In the opinion of a pioneer placer-miner who had worked on the creek in the early sixties, at one time a lake did occupy this basin and the creek followed a different channel at the falls; owing to an uplift the waters of the lake were flooded down the valley, carrying with them immense quantities of material which choked the original channel with boulders, piled the gravel in high banks on either side, and forced a new channel, through which the creek now flows. Although delving into the depths of the uncertain past, this theory is interesting and sounds feasible, for there certainly is an old channel entering the creek just below the falls, at which point the Wild Horse Gold Mining Company is now operating. This company, under the management of A. J. Palmquist, has succeeded in conveying water from the old flume to the top of the bank, from where it is piped down for a distance of about 300 feet to the monitor stationed 100 feet above the level of the creek.

The gravel filling the old channel represents a bank of about 400 feet high; for the first 100 feet or so it is darker in colour and shows a stratification different from the upper portion, which latter contains a greater proportion of silt. It would seem probable that the old channel occupied a box canyon similar to the one through which the creek now flows.

At the time of the writer's visit the stream of the monitor was playing on a mass of boulders at the bottom of the bank. The sluice-box is laid on the gravel at the edge of the creek and is connected with a flume from a pool just below the falls, which provides additional water for sluicing. On account of the great height of the bank and the limited amount of room between the working-face and the creek, it is a proposition which will have to be worked very carefully; while getting rid of the tailings presents somewhat of a problem, as the grade of the creek does not exceed 3 per cent.

Previous attempts to win the gold from these gravels are described by the Provincial Mineralogist in the Annual Report of the Minister of Mines for 1903, a copy of which description may be seen in Memoir No. 76 of the Geological Survey.

As regards lode-mining on this creek, activity in prospecting was the natural sequence to placer-mining, and the surrounding country was prospected in an endeavour to discover the source of the gold found in the alluvial deposits.

The year 1896 probably marked the greatest activity in this direction, at which time the country was more easily accessible than it is to-day, as the majority of the prospects have since been abandoned, the old cabins have become dilapidated, and many of the trails overgrown and obliterated.

The characteristic features of the area and remarks on milling operations are embodied in the report of the Provincial Mineralogist, who visited a number of properties in 1898, from which the following are excerpts:—

"A large number of claims were from time to time recorded, many of which were justified by the discoveries made, but as many more on no apparent values. The work done has proved, however, that there are without doubt a number of very strong parallel quartz ledges, some of a great width and traceable for miles, running S. 20° W., or about parallel with the general direction of the creek, and dipping nearly vertical.

"Recognizing the futility of trusting to small samples and that a satisfactory test of the various properties could only be determined by a practical test, J. E. Hardman, mining engineer of Montreal, had a small stamp-mill erected in 1897 at the mouth of Sawmill creek for the purpose of making mill tests of the ore from the various properties he had under bond.

"Test runs were made on ore from several of the claims on the creek, in lots of 5 to 10 tons each. The results obtained were not commercially satisfactory, for, notwithstanding the fact that some gold was saved, in no instance were the values sufficiently high to warrant serious work on the claims. The tests, however, do not seem to have satisfied the claim-owners, as the results obtained did not tally with their private assays. I heard several complaints about the matter, regret being expressed that the running of the mill had been left to inexperienced men and values allowed to escape in the tailings. Of this I know nothing further than was told me by men who might be considered 'interested parties.'"

After describing tests made by panning the tailings, he concludes his report as follows: "As a result of my investigation, I am satisfied that the mill did not save such free gold as may have been in the ores, and that the tests made were not conclusive as to the values of these properties. I am further satisfied that only a portion of the gold is 'free' and that some method of concentration would have to be adopted to save the gold occurring in the iron sulphides."

Since this report was written more work has been done at the *Homestake*, *Running Wolf*, and possibly some other claims in the vicinity, but, as far as the writer knows, the two mentioned are the most highly developed. The former was reported on by J. D. Galloway in the Annual Report of the Minister of Mines for the year 1915, and the latter property is mentioned in Memoir No. 76 of the Geological Survey.

Yellow Metal Group.

This group comprises 11 claims, which cover the rounded summit of the divide between Hellroaring and Perry creeks and also a portion of the Perry Creek slope. W. van Arsdalen, who is interested with Ed. McMahen, has spent a number of seasons in prospecting the area in the endeavour to prove the existence of a large body of low-grade gold ore, having been encouraged by the results obtained by panning material from a number of places on the property, more particularly along the summit of the ridge.

The area is underlain by thinly bedded quartzites of the Creston formation, having a strike of N. 25° E. and a dip of 67° to the north-west. On the summit, at an elevation of about 7,000 feet, these quartzites have been crushed and shattered by glacial action, with the result that the surface is covered to a depth of about 6 feet with detritus. The quartzites, shot with small stringers of quartz, upon crushing, yield colours to the pan, but the best results can be obtained from the dirt along the bed-rock below the detritus; the glacial erosion no doubt having performed the same function of concentration, to a small extent, as that of a creek. A sample of some of this dirt taken on a previous occasion only yielded a trace of gold; but assays of small samples of such material cannot be considered as representative, while panning may also be misleading. This band of quartzites shows a width of about 300 feet and has been prospected by open-cuts and long trenches across its strike and a 20-foot shaft, which is now caved.

At a short distance down the Hellroaring Creek slope a quartz vein has been prospected by a 20-foot open-cut along its strike. It has a width of 20 inches and is well defined by 3 inches of gouge on the hanging-wall and crushed material on the foot-wall. In dip and strike it conforms to the formation. A sample taken across 20 inches of quartz ran: Gold, 0.19 oz.; silver, 0.2 oz.. A sample across a 3-inch streak of gouge ran: Gold. 0.32 oz.; silver, 0.3 oz.

On the Perry Creek slope, at no great distance from the main trail, prospecting consisting of open-cut work has been done on two strong quartz veins having a north-westerly strike; the quartz is well mineralized with iron sulphides, but does not carry any appreciable gold values.

Still farther down prospecting has been done on a well-defined quartz-filled fissure, which has the same strike as the quartzites, but cuts them on the dip. The width of this vein is about 4 feet; it strikes N. 23° E. and dips at 80° to the south-east. The filling consists of crushed quartz stained with iron oxide, and it is a promising-looking vein, but as yet has only yielded small gold values. The work consists principally of a shallow shaft, several open-cuts, and two tunnels, the lowest of which has been driven for 25 feet and gains a depth of 125 feet below the shaft.

Further reference to this property may be seen in the Annual Report of the Minister of Mines for 1915.

Park Group. This group, comprising the *Hercules*, *Park*, and *Bee Line* claims, is owned by W. A. Chisholm and is situated at a distance of 1 mile from the railway at Marysville. The country is undulating and a motor-car can be taken to within a short distance of the workings. The area is underlain by quartzites which have been intruded by diorite dykes and sills. The vein is a quartz-filled fissure in diorite, having a width of about 5 feet and striking N. 80° W. The ore, consisting of galena associated with a quartz and calcite gangue, is free from zinc and carries low silver values. It occurs irregularly distributed over a length of about 200 feet along the strike of the vein.

The property has been systematically prospected by trenches and open-cuts. The strongest surface exposure examined showed a width of 30 inches, across which a sample was taken; this gave the following results: Gold, 0.02 oz.; silver, 3.2 oz.; lead, 18.2 per cent.

Old workings consisting of a shaft 60 feet deep, from the bottom of which 70 feet of drifting had been done, could not be examined on account of water. A shipment of 17 tons made from these workings about six years ago gave the following returns per ton: Silver, 6.1 oz.; lead, 48 per cent.

Further prospecting on the Sand Creek iron-deposits met with encouraging results.

The Federal Mining and Smelting Company has taken a bond on the *Stemwinder*, which is situated on Mark creek between the *Sullivan* and *North Star* mines. Diamond-drilling has been commenced.

Evans Bros., of Marysville, continued their prospecting and development work on the *Achilles* group. Nice samples of copper ore have been brought in from this property.

One of the finest beds of fossils yet found in this district was discovered near the road from Cranbrook to Fort Steele by Colonel C. H. Pollen. The fossils are mostly of the trilobite family and are classified as belonging to the Upper Lower Cambrian.

Dr. S. J. Schofield, of the Canadian Geological Survey, was camped during the early part of the season near Fort Steele, whence he moved northwards into the Windermere Division.

Victor. Since reporting on this property in 1917 there has been a large amount of money spent on development and mill-construction. The property is owned by the Victor-Silver Leaf Mining Company, of which R. Abernethy, of Spokane, is the president and his son, Elmer R. Abernethy, is secretary. The capital for these recent expenditures has been principally provided by capitalists of Flint, Michigan, under the terms of a lease and bond. R. Abernethy has been retained as manager under the terms of the agreement.

Briefly, the vein cuts a narrow ridge between Maus and Lost creeks and is exposed in a precipitous rock bluff on the Maus Creek side. In this bluff three drifts have been run. The portal of the No. 1, or uppermost, is located at about 1,000 feet below the summit of the ridge and has been driven along the vein for 387 feet. The No. 2 drift is 125 feet vertically below the No. 1 and has been driven for 427 feet. The No. 3 drift was started in the slide-rock at the base of the bluff at 100 feet vertically below No. 2. This tunnel is now in a considerable distance and will be continued this winter. The workings are not connected, no sinking or raising on the vein having been attempted. No ore of commercial importance had been encountered in the No. 3 tunnel at the time of the writer's visit in July.

The ore is a complex mixture of galena, zinc-blende, and iron pyrites in a quartz gangue, and is irregularly distributed as small lenses, streaks, and disseminations. At few places does it exhibit a workable width. The best grade of ore is exposed at the portal of the No. 1 tunnel, where there is a small bunch of coarse cube galena in an oxidized gangue material. A sample of this ran: Gold, 0.03 oz.; silver, 30.3 oz.; lead, 68.1 per cent.; zinc, 6.4 per cent. Other samples taken in the No. 1 and No. 2 tunnels would indicate the values to average about as follows: Gold, 0.05 oz.; silver, 10.5 oz.; lead, 14 per cent.; zinc, 9 per cent.

Sullivan Mine, Fort Steele M.D.—Portal of Tunnel.

Perry Creek, Wild Horse Gold Mining Co.

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The mill-site is on the side-hill at a distance of over 1,000 feet from the portal of the No. 3 tunnel, with which it is connected by a covered track. The mill equipment, which was not complete, consisted of a Blake crusher, one set of rolls, and two Overstrom tables.

The water-power available from a small glacier-fed creek was only sufficient to drive an 8 by 9 Sullivan compressor, so additional power is provided by a 25-horse-power, type Y, Fairbanks-Morse semi-Diesel engine, which was said to be giving excellent satisfaction on a consumption of about 12 gallons of coal-oil per 8 hours.

A mixed car-load of ore and concentrates was shipped in the fall.

Placer-mining.

Besides the activities already described on Perry creek, the Gamble Mining Company had a monitor operating on Wildhorse creek. The extreme dryness of the season necessitated closing down work earlier than was anticipated. It is understood that the results came up to expectations and work will be resumed early next season.

Gypsum.

A deposit of gypsum occurs along the north bank of Bull river at a distance of about 3 miles from the main road to Fort Steele and within a short distance from the falls. The branch road leading up Bull river traverses a flat bench in the vicinity of the deposit. The river cuts this bench to a depth of about 300 feet, leaving a steep bank on the northerly side. Unfortunately, the surface of the bank is covered to a considerable depth with soil and few rock-exposures are visible.

However, shallow diggings at various places have uncovered the mineral, and from all indications there is a large deposit conforming to the dip and strike of the formation.

The writer is indebted to Dr. S. J. Schofield, of the Geological Survey, for following notes on the general geology of the area: "The gypsum occurs interstratified with the Devono-Carboniferous limestone, outcrops of which occur lower down Bull river and crossing Kootenay river to the hills west of Wardner. This mass of Devono-Carboniferous limestone is in the form of a syncline, which strikes approximately parallel to the strike of the Kootenay valley. The gypsum at Bull river occurs in the eastern limb of the syncline."

An analysis of a representative sample gave the following results: Gypsum, 80.5; carbonate of lime, 14.4; insoluble, 3.5; magnesium oxide, 0.6; organic matter, 0.8.

The deposit could be further prospected and developed at small cost, while its nearness to both the Kootenay Central Railway and power-site at the falls make it particularly attractive for commercial enterprise.

Graphite.

A small deposit of graphite was discovered on the westerly bank of Matthew creek at a short distance from the wagon-road. The nature of its occurrence was difficult to determine as the formation was so badly faulted and broken, but so far as could be seen it apparently has been deposited along the contact of a micaceous schist and a porphyry dyke. It is of a massive variety and of good grade, but as yet no deposit of commercial importance has been developed. The shattered and faulted ground suggests that the rock along the creek where the work has been done is not in-place but has slid down in large masses from a point higher up the hillside.

Coal Production.

Robert Strachan, Senior Inspector of Mines, reports as follows:—

"The production of coal for the year is about 10 per cent. less than for 1920, and amounts to 759,755 long tons.

"Coal Creek Colliery shows a decrease of about 4 per cent., Corbin 55 per cent., while Michel shows a slight increase.

Colliery.	1920.	1921.	Increase.	Decrease.
Coal Creek	431,783	413,523	....	18,260
Michel	264,592	278,301	13,709	....
Corbin	151,014	67,931	....	83,083
Totals	847,389	759,755	....	....

"Coke production will show about 59,434 tons, a decrease of 8,358 tons from 1920.

"None of the coke-ovens at Fernie have been in use during the year, while only about 50 per cent. of the Michel ovens were required to fill the demand for coke.

"The cause of the decrease in the production is due mostly to lack of demand for coal, the mines having only averaged about 75 per cent. of their working-time.

"While the mines have only worked about 75 per cent. of the working-days, the output of coal will show about 12 per cent. of a decrease, indicating that while the mines were working a larger production was made than when working full time.

"Labour has been very plentiful throughout the year.

"No new mines have been opened at Coal Creek, but all the mines have been operated, and during the summer a large ventilating-fan, with a capacity of 300,000 cubic feet of air a minute, is being installed at the No. 1 East mine, to replace the present Wilson fan, for which the mine has become too large.

"A circular shaft has been sunk, concreted from the rock up, and the fan-house and engine-room are made of the same material.

"It has not been decided yet whether the fan will be driven by steam or electric power, as the completion of the Alberta and British Columbia Power Company's plant at Bull river will probably mean the changing of most of the collieries from steam to electricity as a motive power.

"At Michel the present mines have been developed to such an extent that in spite of the slack time the production is greater than the previous year, and the greatest handicap at present is lack of housing accommodation for the workmen.

"At both Michel and Coal Creek the Crow's Nest Pass Coal Company has been drilling the measures, and while no detail has yet been issued, this work has proved the existence of remarkably fine coal-seams, both over and under the present measures.

"At present a cross-section of over 2,000 feet has been proved at Coal Creek, and no doubt will prove very valuable in the future development of the mines.

"At Corbin the decrease in production runs very high—namely, 56 per cent.—and is due to the closing-down of the Big Showing or open-cut mine.

"The future developments in Corbin will probably be farther up the creek, where the measures seem more regular and the coal carries a less quantity of surface dirt.

"Following this line, the No. 6 mine has been opened 2 miles above the town of Corbin, where the coal seems more regular, although the seam at the 5,390-foot level averages 400 feet thick.

"The intention is to develop this seam along the panel system and extract the pillars as soon as the panel is completed."

WEST KOOTENAY DISTRICT.

AINSWORTH MINING DIVISION.

In common with other silver-lead-producing districts, the Ainsworth Division has suffered from an unusually quiet season and its production of silver and lead will fall short of last year. This is due to the inactivities of the larger producers brought about by the low metal prices.

AINSWORTH CAMP.

Florence.—Large bodies of ore have been developed at this property, but owing to the comparatively low silver content economic production could not be maintained under the prevailing conditions of the lead market. During the early part of the year a small tonnage of the high-grade ore was shipped by leasers to Trail.

Spokane-Trinket.—A small shipment was made from this property, which has been a steady producer during the last three or four years.

Highland.—This mine, owned by the Consolidated Mining & Smelting Company, was operated under lease for part of the season by L. Oughtred, who was formerly in charge of the property for the owners.

No. 1.—This mine, also owned by the Consolidated Mining & Smelting Company, was operated under lease by T. Hawes and associates.

Skyline.—It is reported that work has been abandoned by J. Sime and associates, who were operating it under lease and bond.

Silver Hoard.—S. McPherson and J. Sherman are operating the property under lease.

Kraa.—Small shipments of exceptionally high-grade silver ore were made from the upper workings. W. E. Zwicky, who controls the property, is doing some exploratory work below the 100-foot level.

The Lakeshore Mining Company, in which Spokane capital is interested, was formed during the year and a number of claims were acquired, running from the lake-shore up the hill and covering a strip of ground between the *Florence* and *Highland* properties. Work was started by driving a crosscut tunnel, the ultimate length of which will be about 700 feet. The object of this tunnel is to explore, at a depth of 200 feet, promising-looking surface showings and to tap an old shaft now partly filled with water.

Riondel.

Bluebell.—After shipping about 3,450 tons during the early part of the year, operations were suspended pending more favourable market conditions.

Kirby Group. Situated near Riondel and within a short distance of Kootenay lake. During the year work was first confined to prospecting the surface showings near the old workings, under the supervision of A. J. Curle and R. Guthrie. The general run of the ore is a mixture of galena and zinc-blende associated with iron pyrites in a gangue of quartz and spathic iron. Concentration will be necessary before shipping to the smelter; hence the future of the property depends upon the development of sufficient tonnage to warrant mill-construction.

The vein has a strike of north and south and dips at an angle of 35° to the west, or towards the lake, conforming to the stratification of the enclosing rocks. It has been approached by a 55-foot crosscut tunnel and drifted on for about 100 feet along the footwall side. This drift does not gain any appreciable depth and terminates in a deep open-cut, from which a 30-foot shaft has been sunk. The shaft is said to have encountered 4 to 5 feet of milling-ore, but this could not be examined on account of water. The great depth of wash overlying the bed-rock renders further exploratory work along the strike of the vein both expensive and unsatisfactory.

Evidences of vein-matter in the bed of a small creek immediately above the shaft led to further prospecting slightly higher up the hill, and a nice showing of ore was uncovered by trenching. The work done on this had not been sufficient to prove the true width of the vein or its relation to that exposed by the workings already referred to, but it is probably either a parallel vein or the same as that exposed in the tunnel.

However, the surface showings were considered sufficiently encouraging to justify exploration at a greater depth, and with this object in view a long crosscut tunnel was started from a point near the lake-shore. It is estimated that this tunnel will gain a depth of 300 feet on the dip of the vein. The accumulation of wash which forms the lower benches of the hill is greater than was expected, for the tunnel is now in 285 feet and there is still no sign of bed-rock.

Further reference to this property may be seen in the Annual Report of the Minister of Mines for 1920. In this report the following typographical error was noticed: "dykes of rock" should read "dyke-rocks" on page 120.

Woodbury Creek.

This creek, heading from the Kokanee glacier, flows in an easterly direction and enters Kootenay lake at a point 2½ miles north of Ainsworth. It drains a large granite area lying to the west of that underlain by the sedimentary rocks bordering the lake. It is in this granite area that the following described properties are located. As will be noticed, the ores are of high grade, carrying little zinc and a high ratio of silver to the unit of lead.

Jessie Bluebird.* This property, owned by E. Johnson, of Kaslo, is situated at an elevation of about 6,500 feet (lower tunnel) on the northern side of the North fork of Woodbury creek, about 10½ miles from Kootenay lake. The *Jessie Bluebird* trail, about 1½ miles in length, branches off the main Woodbury Creek trail at a point about

9 miles up from the lake. The workings, which aggregate some 1,500 feet of development, follow a zone of shattered rock or sheared fissure in granite which in places exceeds 20 feet in width.

The ore occurs mostly in siliceous stringers and lenses, ranging from 1 to 2 feet in width, which run in an irregular manner through the fissured and altered granite, but is also found disseminated through or in small bunches in the granite itself. It consists principally of galena, grey-copper, and silver sulphides, and is considerably leached and decomposed from oxidation.

The lead strikes in a south-westerly direction, dipping at about 58° to the north-west, or into the mountain. Access to the lead is by means of two crosscut tunnels about 100 feet vertically apart. The upper crosscut or No. 1 level is 80 feet to the lead, which has been drifted on for 200 feet to the south-west. A sample across 12 inches in the floor of this drift, about 50 feet in from the crosscut, gave: Gold, 0.04 oz.; silver, 209.6 oz.; lead, 8.9 per cent.; zinc, 0.5 per cent.

Two winzes sunk on the lead from this drift are 70 and 110 feet in from the crosscut and 45 and 25 feet down respectively. A short drift has been run to the north-west from the bottom of the 45-foot winze, where a lens of ore was encountered. The lower crosscut or No. 2 level is 200 feet to the lead, which has been drifted on for about 500 feet to the south-west. At a point 395 feet along this drift from the crosscut a raise 120 feet long on the dip of the lead connects with No. 1 level, and 50 feet up this raise an intermediate tunnel has been driven 50 feet north-easterly. An average sample across a lens of ore 12 inches wide and 25 feet long in the floor of this intermediate level gave: Gold, 0.05 oz.; silver, 366.5 oz.; lead, 7.9 per cent.; zinc, 4.4 per cent.

At the time of the writer's visit in September stoping was in progress from three 40-foot raises above the south-western end of the drift on No. 2 level. The stope was then 60 feet long and was being carried about 4 feet wide.

The ore is roughly sorted in the stope and re-sorted in daylight, as only the highest grade is shipped at present owing to the heavy packing charges to Kootenay lake, which amount to $30 a ton. A grab sample of roughly sorted ore in the stope gave: Gold, 0.02 oz.; silver, 217.6 oz.; lead, 24.2 per cent.; zinc, 0.5 per cent. A grab sample from about 6 tons of ore sorted for shipment gave: Gold, 0.05 oz.; silver, 382.4 oz.; lead, 13.5 per cent.; zinc, 1 per cent.

The sorting requires an intimate knowledge of the character of the ore, as some of the best values are obtained from material which looks unattractive to the uninitiated.

The workings are mostly on the foot-wall side of the lead and scarcely any crosscutting has been done. Twenty-one tons of ore was shipped to Trail in October.

Grant.* This property, consisting of the *Grant* and *General* Crown-granted mineral claims, is situated on the north slope of the mountain on the southern side of the North Fork of Woodbury creek, about 5 miles in a direct line from Kootenay lake, the nearest shipping-point being the Princess Creek wharf, distant about 8 miles by trail and road (6 miles by trail and 2 miles by road). The property is owned by C. F. Olson, of Ainsworth, and is being operated under lease by Bridge & Kennedy.

The altitude of the lower tunnel is about 4,500 feet. Grey-copper carrying high silver values, with small amounts of galena and zinc-blende, occur in small shoots in quartz-filled fissure-veins which cut a siliceous limestone formation near its contact with the granite. The principal work has been done on a vein cutting vertically across the formation in a north-easterly and south-westerly direction. Access to the vein is by means of two crosscut tunnels about 80 feet vertically apart. The upper crosscut is 28 feet to the vein, which has been drifted on for about 100 feet to the south-west. An ore-shoot encountered in this drift was stoped to the surface. The lower crosscut is 100 feet to the vein, which has been drifted in for about 400 feet to the south-west. Two raises, about 130 and 250 feet distant respectively from the crosscut, are up about 60 feet.

At the time of the writer's visit in July Bridge & Kennedy were stoping, sorting, and sacking ore from these raises. The width of the vein in these stopes varies from 1 to 2 feet, with a rich pay-streak of quartz and grey-copper from 4 to 8 inches in width. A sample across an 8-inch pay-streak in the stope farthest in from the crosscut gave: Gold, 0.02 oz.; silver, 629.4 oz.; lead, 13.3 per cent.; zinc, 4.8 per cent. A sample across a 4-inch pay-streak in an open-cut above the upper tunnel gave: Gold, 0.08 oz.; silver, 851.1 oz.; lead, 35.8 per cent.; zinc, 18.6 per cent.

About 300 feet northerly from the portal of the lower crosscut another vein is exposed in a shallow cut by the side of the trail. This vein, which is about 2 feet wide, apparently has a north-westerly and south-easterly strike, but insufficient work has been done to ascertain the dip. The outcrop of this vein is considerably oxidized from the leaching-out of the sulphides. Some selected specimens of this oxidized outcrop material gave: Gold, 0.01 oz.; silver, 52.1 oz. With the exception of this shallow cut no work has been done on this vein.

The ore is carefully sorted and Bridge & Kennedy hoped to maintain an average of 600 oz. to the ton for the ore which they were sacking for shipment. Twenty-one tons was shipped to Trail in November.

Violet Group.* This property, consisting of the *Violet* and *Lookout* claims, owned by John Henry and J. M. Currie, of Ainsworth, is situated on the northern side of Woodbury creek at an altitude of about 8,400 feet (upper tunnel) near the summit of the divide separating that creek from the South fork of Kaslo creek. The claims are reached by a trail about 3½ miles in length which branches off the main Woodbury Creek trail at a point about 9 miles from Kootenay lake. Development-work done amounts to about 240 feet of tunnelling and a 60-foot raise.

The ore, consisting principally of grey-copper and silver sulphides, with small amounts of galena and pyrite, is found in siliceous stringers and bunches on the foot-wall side of a sheared zone in granite which strikes north-easterly along the summit of the divide. The hanging-wall is not clearly defined, but the lead appears to have a width of from 6 to 15 feet and almost vertical dip. Within the lead the granite is much altered in appearance, with highly siliceous phases.

Just below the summit a 50-foot tunnel has been driven on the lead. Sixty feet vertically below this level a tunnel has been driven 110 feet, partly as a crosscut and partly along the hanging-wall side of the lead. Fifty-four feet in from the portal of this tunnel a 10-foot crosscut has been made to the foot-wall of the lead, which was then drifted on for 15 feet to the north-east and 26 feet to the south-west. Near the extremity of the lower tunnel a raise connects with the upper tunnel.

The ore is carefully sorted for shipment, as packing charges from the workings to Kootenay lake are about $35 a ton. Grab samples of sorted ore gave:—Upper tunnel: Gold, 0.02 oz.; silver, 935.5 oz.; lead, 31.2 per cent.; zinc, 3.9 per cent. Lower tunnel: Gold, 2.02 oz.; silver, 90.1 oz.; lead, 33.5 per cent.; zinc, 1 per cent.

Wood for fuel has to be brought from over a mile away to the camp, but fortunately the ground in the workings requires scarcely any support. At the time of the writer's visit in September 4 tons of high-grade ore had been extracted and was awaiting shipment.

South Fork of Kaslo Creek.

Activities up the South fork have been confined to prospecting and a little development-work at the various properties, but no attempt has been made to ship ore, except from the *Silver Bell*, from which 45 tons is recorded.

M. S. Davys has had a few men employed at the *Silver Bear*, while adjoining claims have been prospected by L. McLeod.

Other minor activities include prospecting done at the *Liberty* under the supervision of W. Y. Williams, and a little development at the *Revenue* and *Gold Cure* groups.

Retallack.

Possibly one of the most important transactions which have taken place with regard to properties near Kaslo is the lease of the *Utica* to O. C. Thompson and associates, who for the past number of years have been successfully operating the *North Star* mine near Kimberley.

It is reported that under this lease the long crosscut tunnel which was started a few years ago will be continued to intersect at depth the two main veins. From the upper levels a considerable tonnage of high-grade ore has been extracted in the past.

At the *Mowhawk*, which is situated at a short distance from the *Utica*, J. Chisholm is driving on the vein in an endeavour to pick up the downward continuation of the ore-shoot below its outcrop.

Whitewater.—There has been an average of ten men employed at the mine. No new developments of any special significance have been made. About 200 tons of ore was shipped to the Bunker Hill smelter at Kellogg, Idaho.

SHIPPING-LIST, SHOWING APPROXIMATE TONNAGE MINED.

Mine.	Locality.	Weight.	Character of Ore.
		Tons.	
Bluebell	Riondel	3,450	Silver-lead.
Florence	Ainsworth	501	„
Highland	„	860	„
Krao	„	102	Silver.
Little Mamie	„	11	Silver-lead.
No. 1	„	183	„
Ruth	„	41	Silver (old concentrate).
Skyline	„	21	Silver.
Spokane-Trinket	„	22	Silver-lead.
Silver Bell	Kaslo	45	Silver.
Whitewater	Retallack	209	Silver-lead-zinc.
Utica	Adamant	46	Silver-lead.
Grant	Woodbury creek	2	„
Jessie Bluebird	„	21	„
Violet	„	4	„
Mohawk	South Fork, Kaslo Creek	2	„
Silver Bell	„ „	45	„

SLOCAN MINING DIVISION.

In view of the depressed market conditions prevailing throughout the greater part of the year, there has been as much activity in the Slocan as could be expected.

Silversmith. A large crew was steadily employed during the summer months at construction-work. The old *Ivanhoe* mill, recently operated by the Rosebery-Surprise Mining Company, was acquired by the Silversmith Mines, Limited, remodelled and added to. A new aerial tram was constructed to connect the mill with the mine; this is equipped with the cable and buckets of the old *Centre Star* tram.

During the early part of the year the mine produced 2,021 tons of lead concentrates and 134 tons of crude ore. During this same period there was also produced about 2,000 tons of zinc concentrates which has not been shipped. No mining has been done since April 1st, pending the completion of the mill and tramway. It is expected that operations will be resumed in the near future.

Payne.—A certain amount of exploratory work, in the nature of crosscutting from the low-level workings, was done under the supervision of W. J. Elmendorff, a mining engineer of Seattle. It is understood that lack of capital caused the suspension of operations.

Rambler-Cariboo.—This property ranks as one of the steadiest producers of the Slocan. The company suspended operations this year and work was carried on by W. A. Cameron, the former manager, under the terms of a lease.

Queen Bess.—A few men have been steadily employed during the season by Clarence Cunningham.

McAllister. This property is owned by the Slocan Silver Mines, Ltd. R. A. Grimes, who is in charge, reports that the development-work done during the season includes 800 feet of drifting and raising in addition to surface exploration. The vein has been drifted on for over 1,000 feet on the No. 3 level, which is connected by three raises to the No. 2 level. By careful and systematic sampling he estimates that there is now a large tonnage of ore available, which will carry an average value of 33 oz. in silver to the ton.

Ruth. This property, including the *Ruth, Hope, Wyoming,* and *Ruth Fraction,* was one of the most important producers during the earlier history of the Slocan. It is owned by London interests, of which James Anderson, of Kaslo, is the local representative. The underground workings are extensive, while surface equipment includes an aerial tram and concentrator, the latter being situated alongside the railway. The vein is

of the typical fissure type of the Slocan. The ore-shoots as developed were strong and persistent along the strike.

During the period of inactivity in recent years the tunnels from the surface have in many places become caved, leaving only a comparatively small section of the old underground workings accessible. This year the property was leased to J. H. Black and associates, of Sandon, who started work in May and reopened the No. 3 level. Several nice shoots of galena were uncovered along the bottom of the drift and underhand stoping was commenced. The ore thus developed consisted of galena in crushed and decomposed ledge-matter heavily stained with oxide of iron. The true walls of the fissure are not definitely disclosed by the drift and more crosscutting than has been done would appear to be fully justifiable.

In the No. 2 level ore is exposed across a width of about 6 feet in the bottom of a crosscut and at a distance of 30 feet to the south of the main vein. A crosscut has been started from the No. 3 level to explore the ground under this showing. A grab sample from a pile of 35 tons extracted from these workings ran: Silver, 102.7 oz. a ton; lead, 65.2 per cent.; zinc, 3.2 per cent.

The following description of the discovery of this property, taken from W. A. Carlyle's report published in the Annual Report of the Minister of Mines for 1896, should be of interest to prospectors: "After many hardships and disappointments, but persistent prospecting, the *Ruth* vein was accidentally disclosed by a small piece or two of iron-stained rock sticking in the roots of a windfallen tree that had stood nearly on the top of the ledge, and even then considerable work had to be done before the ore-shoot was struck from which has since come the mine's production."

At the *Gem*, which is situated near Sandon, a small tonnage of high-grade silver-lead ore was extracted from the bed of Carpenter creek by Mickey Byrne, who bought the property from F. Edwards, the original owner.

Boulders and small nodules of all shapes and sizes of water-worn galena are found in the creek-gravels at the foot of an old slide. They are all well rounded and, to look at, resemble ordinary creek boulders and pebbles. No doubt they originally came from some ledge on the hillside, which, needless to say, has been carefully prospected, but the identity of the ledge is still uncertain.

Carnation Group. Situated at an elevation of 6,000 feet at a distance of about 5 miles by trail in a south-westerly direction from Sandon. The group comprises the following claims: *Tenderfoot*, *Read*, *Carnation*, *Violet*, *Evening*, *Jennie*, *Jennie Lind*, and *Mollie O.* The claims are located on the northerly slope of Carnation mountain, from the summit of which one can look down on the mines of Silverton camp and Slocan lake, while an excellent view can also be obtained of the outstanding topographical features of the Slocan district. The area is well within the zone of mineralization and is underlain by rocks of the Slocan series, which have been intruded by granite-porphyry dykes from the near-by Nelson batholith.

Since the property was visited and reported on in 1917 a large amount of underground development and exploratory work has been accomplished under the management of G. W. Clark, of Sandon. Two substantial and well-built 16- by 24-foot cabins and a small stable have been erected.

The general strike of the vein is easterly and westerly, dipping to the south at an angle of from 50° to 71°. The No. 2 level consists of a drift 280 feet long, which develops the vein at a vertical distance of 200 feet below the surface exposures at the old shaft. The fissure-filling encountered in this drift is composed of oxidized and decomposed ledge-matter, in which occur small bunches and sprinklings of galena. Near the face the apparent width of this material is 24 feet. The hanging-wall is well defined and carries a streak of gouge; the true foot-wall had not been encountered at this point. It is promising-looking ground and the continuation of this drift for another 100 feet to explore the ground below the old shaft would appear to be justifiable.

The portal of the No. 3 level lies about 300 feet to the east of and about 200 feet below that of the No. 2. The total amount of drifting and crosscutting done in this level is about 600 feet. The hanging-wall is well defined and dips at an angle of 71° to the south. The filling of the fissure is brecciated and consists largely of siderite. The drift has not been extended far enough to prospect the vein under the last 200 feet of the No. 2 level.

Among other activities around Sandon during the season the following are reported: Johnson & McLanders were leasing at the *Mountain Con;* Bough & McLellan were working at the *Slocan Boy* on Payne mountain; the *Noonday* was worked under lease by Tattery & McDonald; and the *Freddy Lee* by Tatterie Bros. W. G. Clark, who had a few men working at the *Chambers* and *Carnation* groups, has recently taken a lease on the *No. 1.*

Mountain Chief. Situated on the wagon-road, half-way between New Denver and Alamo. The property, which is principally owned by A. W. McCune and the George Hughes Estate, is now being worked under lease by Frank Edwards and associates, of New Denver. It is one of the earliest-known properties of the Slocan and produced a considerable tonnage of high-grade silver-lead-zinc ore during 1892, 1894, and 1897. Since this latter date there are no records of any important production, which was possibly due to the increase of zinc with depth.

The vein, which strikes N. 25° E. and dips at about 45° to the south-east, cuts the steep hillside at an oblique angle; the most southerly outcrops are about 200 feet above the wagon-road, while those at the northerly end are some 500 feet higher up the hill. The formation consists of slate and limestones of the Slocan series. The vein has been faulted to the east in several places and the old workings have developed two distinctly separate ore-shoots—one near the southern end and the other near the northern, the latter being by far the most extensive. These workings are mostly caved in, but from what little that could be seen the vein has a width of from 3 to 10 feet where stoping has been done.

Several crosscuts driven from the surface tap the vein at no great depth, and from these drifting and stoping has been done, which constitute the principal workings. The most extensive work has been carried on from the upper level, from which the ore has been stoped to the surface in a number of places.

The dump represents a considerable tonnage, but it is so badly mixed with waste that it is doubtful if it could be reclaimed at a profit, although a small tonnage might be recovered by careful hand-sorting; for instance, a selected sample from this dump ran: Silver, 158.6 oz.; lead, 29.3 per cent.; zinc, 28.4 per cent. A sample taken from about 40 tons of ore piled near the portal of the lower tunnel ran: Silver, 49.3 oz.; lead, 7.6 per cent.; zinc, 27.1 per cent.

It is interesting to note than the zinc-blende in this vein invariably carries good silver values, and in this connection there is in all probability a considerable tonnage of zinc-blende available in the old workings, which was neglected when the property was being mined many years ago. A sample of zinc-blende of the typical "black jack" variety, taken from an exposure of 1 foot in width near the top of a shallow shaft, ran as follows: Silver, 39.4 oz.; zinc, 55.4 per cent.

Providing a suitable market can be obtained for zincky ores, the prospects of this property of again becoming an important producer would appear to be encouraging.

Bosun. This property has been operated steadily during the year by the Rosebery-Surprise Mining Company under the supervision of J. P. McFadden. The number of men employed averaged about twenty-five. During the first seven months of the year work was confined to development and exploration. Shipments were resumed on August 21st. The discovery of a parallel vein on the hanging-wall side between the Nos. 4 and 6 levels came at a most opportune time, and not only gave new life to the property, but has greatly increased its possibilities. At the time of the writer's visit on September 27th, ore was being stoped from this and the original vein between the fourth and fifth levels. The ore occurs in tightly frozen lenses in a slate formation, both as clean galena and zinc-blende. The galena carries about 150 oz. in silver and the zincky ore about 100 oz.

Mining was being done by hand, which was found in this case to be more satisfactory than the use of machine-drills. The ore is sorted before shipment, there not being a sufficient tonnage developed at the present stage of operations to warrant the starting up of the company's large mill at Rosebery.

Standard.—Operations have been suspended by the Standard Silver Lead Mining Company at this property, which is now being further exploited by Clarence Cunningham, who has had a few men at work during the season. Information regarding the nature of the transaction between Mr. Cunningham and the company has not yet been received.

Ottawa Mill, Slocan City M.D.

Ruth Mill, Sandon, Slocan M.D.

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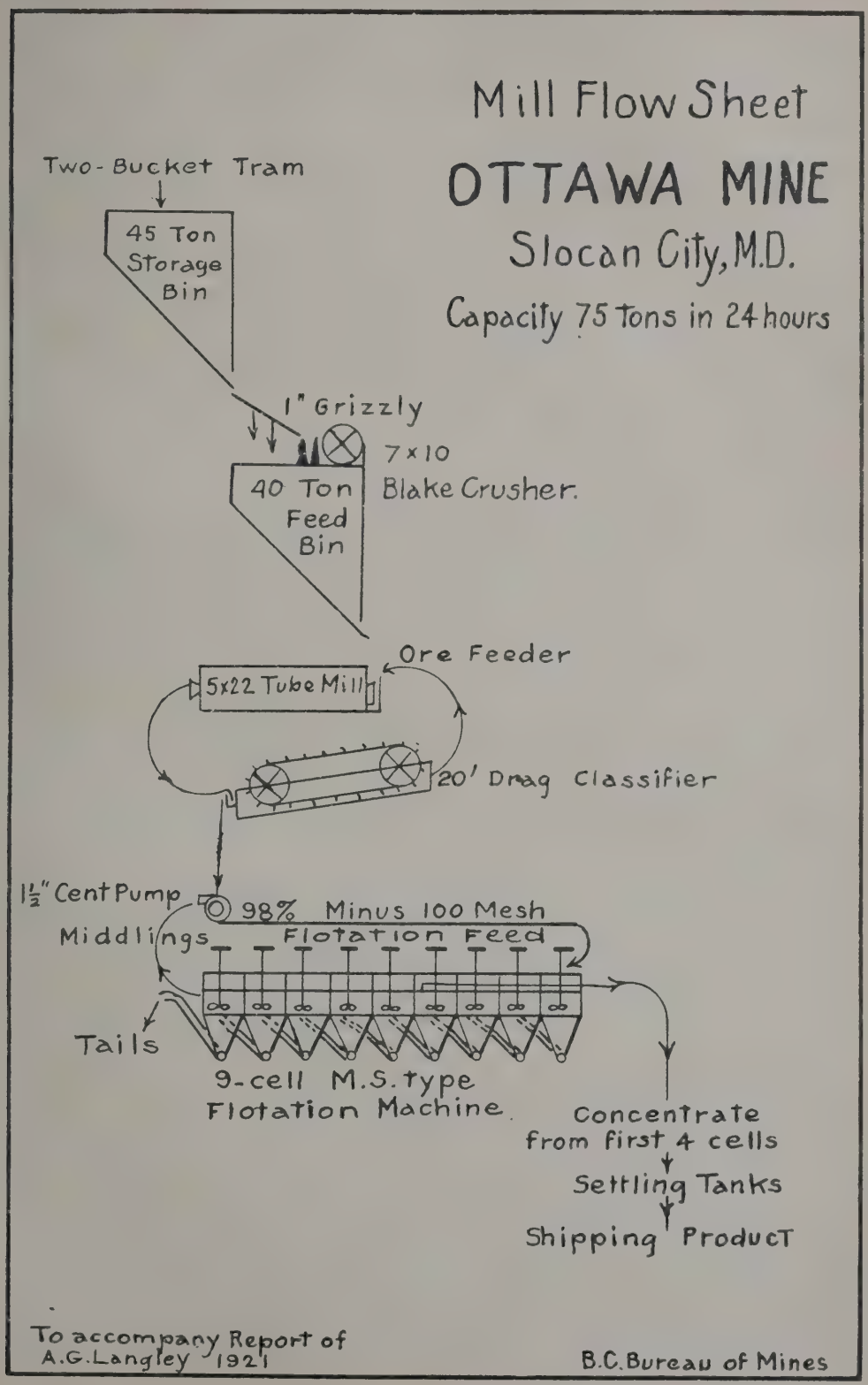
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40 Ton Feed Bin
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5x22 Tube Mill
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98% Minus 100 Mesh Flotation Feed
Middlings
Tails
9-cell M.S. type Flotation Machine.
Concentrate from first 4 cells
Settling Tanks
Shipping Product
To accompany Report of A.G. Langley 1921
B.C. Bureau of Mines

SHIPPING-LIST, SHOWING APPROXIMATE TONNAGE MINED.

Mine.	Locality.	Weight.	Character of Ore.
		Tons.	
Silversmith	Sandon	668	Silver-lead.
Bosun	New Denver	256	Silver-lead-zinc.
Standard	Silverton	275	Silver-lead.
Van Roi and Queen Bess	Alamo	697	,,
Last Chance	Sandon	70	,,
Freddy Lee	,,	25	,,
Gem	,,	10	,,
Ruth	,,	108	,,
Molly Hughes	New Denver	27	,,
Rambler-Cariboo	Rambler	2,000	,,
Chambers	Sandon	6	,,
Echo	Silverton	5	,,
Majestic	Sandon	5	,,
Surprise	,,	4	,,
Canadian	Silverton	10	,,
Ivanhoe	Sandon	5	,,
Redress	,,	4	,,

SLOCAN CITY MINING DIVISION.

Ottawa.

This property is situated on Springer creek at an elevation of about 4,600 feet and at a distance of 5 miles by road from the railway at Slocan City. The history of the mine dates back to the early nineties, but apparently it was not until 1902 that extensive mining and development work was attempted. In this year the property was acquired by a Pittsburg syndicate, of which T. A. Noble was president and R. J. McPhee was mine manager.

In 1904 it is recorded that shipments amounted to 1,330 tons and the net profit for the year was $70,000.

In 1913 it was bought by the Consolidated Mining and Smelting Company, which worked it until 1918. Since then it has been worked under lease by P. McGuire and A. L. McPhee, who confined their attention during the first two years of the lease principally to sorting and shipping ore from the dumps.

In 1920 H. L. Biggar purchased a half-interest in the lease and mill-construction was started in September under his supervision, but owing to unavoidable delays it was not completed until August, 1921.

The ore-deposits occur in a sheared fissure in granite. The character of the ore-bodies would indicate that they owe their origin to replacement by the circulation of mineral-bearing solutions or vapours through small channels and filling interstices in the sheared material between the walls of the fissure, and that continuity might be expected with depth.

The ore occurs in lenses of considerable dimensions, the stoping width being as great as 8 feet. The ore is essentially a "dry" silver ore consisting of argentite, with which is occasionally associated small leaves of native silver, the latter, no doubt, being of secondary origin. The gangue is quartz and country-rock. In places barytes is the predominant gangue and is invariably associated with high values. It is both a difficult ore to sort and to recognize underground, as often lean-looking material will run well in silver.

In the past only the highest-grade ore was shipped owing to the difficulties presented by the concentration of the silver minerals. Hence the dumps contain some high-grade and a considerable tonnage of second-grade ore, while there is a possibility of winning a fairly large tonnage of mill-feed from the old stope fillings.

The fissure dissects the hillside in a northerly and southerly direction and dips at 37° to the east. The mine has been opened by five adit-tunnels at vertical intervals of 100 feet. The uppermost, or the No. 1, is the old original prospect-tunnel and is no longer of any consequence. The Nos. 2, 4, and 5 are in good condition and the No. 3 is caved. Below the No. 5 there is still another level, the No. 6. This does not come out to the surface and is now full of water. It is interesting to note that the ore-shoots showed a marked increase in size as depth was gained.

The ore has been stoped out above the No. 5, although there are places from which small tonnages can be mined, while further prospecting on the hanging-wall side may reveal the presence of parallel shoots. By a rough estimation the dumps contain about 25,000 tons, in which the values are bound to be "spotty." In order to arrive at an estimate of the tonnage suitable for mill-feed extensive and costly sampling would have to be undertaken. Shipments made so far have been encouraging; for instance, 700 tons shipped in 1919 averaged 19.8 oz. in silver, while another 700 tons recently treated by the mill averaged 12 oz. in silver.

The mill is on Springer creek, at an elevation of about 1,000 feet below the No. 5 tunnel. It is supplied by a 2,000-foot 2-bucket tram, the upper terminal of which is on a level with the bottom of the No. 5 dump. The rated daily capacity of the mill is 50 tons. The flow-sheet is as follows: The tram discharges into a 45-ton storage-bin; the ore is then fed over a 1-inch grizzly to a 7 by 10 Blake crusher; then to a 40-ton feed-bin, from which it is fed direct to a 5- by 22-foot tube-mill; the discharge from this goes to a drag classifier; the oversize is kept in closed circuit with the tube-mill and the overflow constitutes the feed for the flotation-machine, it being 98 per cent. minus 100 mesh. The flotation-machine is a 9-cell M.S. type. Concentrates are taken off from the first four cells; the remaining five cells make middlings which are kept in closed circuit with the machine. Tailings made in the last cell go to waste. The plant is run by water-power developed from Springer creek under a head of 290 pounds. The average power used is about 100 horse-power.

Some little delay was caused by the silex liner of the tube-mill and difficulty was experienced in getting suitable pebbles, so it was decided to insert a steel liner and replace the pebbles with steel balls. This change has resulted in increased efficiency.

The first shipment of 20 tons of concentrates was made on November 9th. This contained 308.5 oz. of silver to the ton and gave net returns of $3,989.48. The ratio of concentration for this shipment was about 35 to 1 and the average values in the feed were 12 oz. in silver to the ton. The cost of reclamation and treatment of the dumps is estimated at $2 a ton. The crew consists of twelve men, six of whom are employed at the mill.

This is the first attempt made in the district to concentrate this class of ore, and the results will have an important bearing on many of the properties in the "dry ore" belt.

Tamarack. This property adjoins the claims of the *Ottawa* group to the west and comprises the following claims: *Tamarack*, *Falls View*, and *Essie*. Malcolm Cameron, of Slocan, who is a part owner, has been engaged at development-work during the year. The vein occupies a sheared fissure in granite, dipping at an angle of 30° to the south and striking due east. The ore is a "dry ore" similar to that of the *Ottawa*.

In 1905 extensive drifting was done on the vein by three adit-tunnels at vertical intervals of 80 feet. The uppermost, or No. 1, has been driven at an elevation of 4,600 feet or about 1,200 feet above Springer creek. It consists of a drift 206 feet long. The vein is continuous for the whole length of the tunnel. Recently ore was struck near the end, where the vein widens, and carries a pay-streak of from 18 to 24 inches. A composite sample taken at the face across these widths gave the following returns: Silver, 32 oz. This ore extends back into the drift for about 10 feet, when the vein becomes narrower and the filling more mixed.

The No. 2 tunnel, which is in 270 feet, only developed ore near the portal. A few car-loads were extracted from this shoot during the early history of the property and the ore was followed by a raise to the No. 1 level, above which it was continued for 45 feet. The remaining values at this point are confined to small streaks and pockets. A sample across narrow widths ran: Silver, 43.8 oz.

No ore was developed in the No. 3 tunnel, which is in about 330 feet. In this tunnel a fault-fracture was encountered. The walls are slickensided and the filling consists of crushed and decomposed granite.

The results obtained by recent work in the No. 1 tunnel are encouraging, more especially since it has recently been demonstrated that this class of ore is amenable to concentration by the flotation process. At present hand-sorting and cobbing is necessary before shipment. This is expensive, as the ore is both difficult to sort and extremely tough and hard to break.

Arlington. This property is situated near the head of Springer creek at a distance of about 8 miles by road from Slocan. It is owned by the Rithet Estate in Victoria. The claims were staked as early as 1894 by C. E. Fielding. According to the only old records available, the mine reached its apex of production in 1901, when it

headed the list of Slocan shippers with a production of 5,283 tons for the year. In 1904 the mine was temporarily closed down and reopened in 1905. Steady production was maintained until 1908. The ore shipped is reported to have averaged about 75 oz. in silver and 5 per cent. lead to the ton.

In 1918 M. S. Davys, of Kaslo, took a lease on the dumps, from which he shipped some 500 tons. The ore was not carefully sorted and the values proved disappointing. The ore, consisting of grey-copper, antimonial sulphides of silver, and a little galena, is reported to have occurred in narrow lenses, stringers, and "kidneys" throughout a crushed zone in granite having a width in places of 70 feet. In order to win this ore it was necessary to mine a large percentage of second-grade material which would not stand shipment and had to be hand-sorted. The dumps give evidence of this method having been resorted to. Failure to find a suitable method of concentration during the period of operation was probably the primary cause of closing down.

The mine was opened by three adit-tunnels—namely, A, B, and C. A level gained a vertical depth of 150 feet below C; B level was driven at 100 feet above A. The principal stoping was done betwen B and C levels; on the former, according to old maps, it is continuous for over 1,000 feet along the strike of the deposit. A level is caved and partly full of water. Some of the old workings are still accessible from B level, in which several small lenses of good ore are exposed.

In reviewing the data from old records it is evident that a large tonnage was produced in proportion to the amount of development-work done in the ore-bearing zone. The occurrence of ore throughout a wide zone of shearing would suggest that more crosscutting might have been done to advantage, while there is no reason to suppose that the ore pinches out below the 150-foot or A level.

For the successful operation of this property, providing sufficient ore is developed, a concentrator would seem to be a necessary adjunct. To reopen the mine with a view of again placing it on a productive basis, it would be necessary to clean out and retimber A tunnel, from which level further exploratory and development work could be carried on.

R. R. Hedley, who acquired a lease on the property this year, has been engaged in investigating such of the old workings as are accessible and sampling the dumps, which contain by a rough estimate some 10,000 tons. The results of a number of assays of ore picked from the dumps indicate that it cannot be hand-sorted profitably, as that carrying high silver values closely resembles low-grade ore, and vice versa.

Silver Crest Group.*

This group, consisting of the *Silver Crown*, *Silver Banner*, *Silver Bugle*, *Silver Crest*, and *Silver Bell* claims, is situated along the precipitous summits on the southern side of the headwaters of Lemon creek, about 17 miles by road and trail from Kootenay lake (8 miles by the old wagon-road up 6-Mile creek from Willow Point; thence about 9 miles by trail up Lemon creek). The property can also be reached by the trail up Lemon creek from the Slocan River valley, which route is also about 17 miles in length. The claims, which are recorded in the name of H. G. Harding, secretary of the McLeod-Slocan Mining Syndicate, formerly constituted the *German* group, abandoned by the owner, Henry Reichert, when he left the country in 1916. Reichert was responsible for most of the work done on the property (chiefly open-cuts). R. G. McLeod (president of the syndicate) and associates did some work stripping the outcropping of the vein on the *Silver Crest* claim in the summer of 1921.

At the time of the writer's visit there were eight men in addition to Mr. McLeod and his family at the property. A few of the men were employed in making an open-cut in the lead on the summit of a precipitous bluff at 8,500 feet altitude. This bluff falls abruptly for 1,400 feet towards Lemon creek and the workings are reached by a roundabout route which culminates in the glacial basin behind and a few hundred feet below the summit. From the cabin at about 6,800 feet altitude it takes over an hour of stiff climbing to get to the workings.

The mineralization occurs in a fissure-vein in granite. A basic micaceous dyke follows close to the vein on the hanging-wall side. The strike of the vein conforms to the trend of the summit of the mountain (north-easterly and south-westerly) and the dip is steeply into the mountain, or south-easterly. The vein varies in width from 10 to 12 inches where exposed in the open-cut and the wall-rocks are rusty-looking and decomposed for several feet. The associated minerals are pyrite and galena carrying gold and silver values in a gangue of decomposed quartz and

granite. A sample across 10 inches gave: Gold, 1.82 oz.; silver, 18.1 oz.; lead, 7.6 per cent. The comparatively high gold values may be due to a local concentration of the metal from oxidation of the pyrite. On account of its inaccessibility exploitation of the outcrop will be difficult and a considerable outlay will be necessary before the property can be brought to a producing stage.

White Heather.* This claim, situated at the bottom of the mountain on which the *Silver Crest* group is located, was formerly part of the *German* group, but was recently relocated by J. Law and T. Armstrong. At an approximate elevation of 7,200 feet an open-cut has been made in the outcrop of a lead striking northerly and southerly and dipping about 60° easterly, or into the mountain. The material exposed in the open-cut is oxidized and decomposed, resembling ledge-matter.

About 100 feet vertically below the open-cut a 150-foot crosscut tunnel intersects the lead, which was drifted on for 300 feet southerly. Here the lead, 5 to 6 feet wide, is composed of siliceous porphyritic rock containing stringers and bunches of oxidized material which carry values in silver and gold. The only ore-mineral noted was pyrite. Selected specimens of this oxidized material gave: Gold, 0.04 oz.; silver, 15.6 oz.

About 40 feet vertically below and a short distance from the above tunnel an open-cut has been made in a 6-inch quartz vein having an approximately similar strike and dip. In this vein the quartz is considerably leached, but a little galena and pyrite were noted. A sample across 6 inches gave: Gold, 0.22 oz.; silver, 9.2 oz.; lead, 0.1 per cent. Sixty feet vertically below this open-cut a 60-foot crosscut encountered the vein, which at this point only amounted to a seam, no drifting being done.

Soldier Boy.* This claim, owned by J. Law and T. Armstrong, is situated about half a mile south-westerly from the *Silver Crest* group on the same mountain. Siliceous stringers containing silver sulphides occur in a sheared fissure in granite. This fissure, of indeterminate width, strikes almost vertically across the mountain towards the south-east, or approximately at right angles to the trend of the summits. As the lead outcrops up the face of a precipitous bluff, work has been confined to the only two accessible points, which are the top and bottom of the bluff. The upper workings are reached by a circuitous route over the rugged ground south-west of the bluff.

At the top stringers of ore are exposed in open-cuts at elevations of 7,875 and 7,850 feet. An average sample of 3-inch pay-streaks in these open-cuts gave: Gold, 0.04 oz.; silver, 72.9 oz. About 25 feet vertically below the lower of these cuts a 70-foot crosscut just reaches the lead, which was not drifted on. This tunnel was driven at great personal risk to the owners, who lowered themselves to work on a rope with powder, steel, and timbers.

Below the portal of the tunnel the bluff falls almost vertically for 1,400 feet towards Lemon creek. At the bottom of the bluff, at 6,400 feet elevation, stringers of ore are exposed in an open-cut. Specimens of ore from this cut gave: Gold, 0.46 oz.; silver, 73.7 oz.

Barnett Group. This group, which originally consisted of the *Barnett, Little Montana,* and *Pulaski* Crown-granted claims, is situated at an approximate elevation of 6,600 feet on the northern side of Lemon creek, a little to the west of its intersection with the Third North fork. To get to the property the route followed is from Willow Point, on the West arm of Kootenay lake, 8 miles by the old wagon-road up Duhamel creek; thence via Oro up the Lemon Creek trail about 7 miles; thence up a branch trail 1¼ miles, making the total distance from transportation about 16¼ miles. The property can also be reached by the Lemon Creek trail from the Slocan River valley, which route is about the same length.

The property was examined following an application for assistance towards cost of making repairs to the trail leading to it. R. G. McLeod and associates did a little work on the *Barnett* claim in the summer of 1920. This work chiefly consisted in driving a short length of tunnel. The old workings, which date back to the early days of the camp, consist of some short tunnels, open-cuts, and trenching.

The mineralization occurs in a flat-lying quartz vein in granite. Adjoining the vein the country-rock is rusty-looking, soft, and decomposed. The vein will average about 15 inches in width, but good values are also obtained from a band of altered porphyritic granite in the foot-wall of the vein, which band varies in width from 6 to 12 inches or more.

The ore-minerals noted were pyrite, argentite, and "black sulphurets." The ore so far exposed is chiefly found within a length of 200 feet along the outcrop of the vein, which follows the contour of the hill in a northerly and southerly direction. Three short tunnels crosscut this ore-shoot, but the vein is so flat that it remains in the tunnels throughout their entire length (the longest tunnel is 150 feet in). There are patches of ore in all three tunnels. On account of the soft, decomposed nature of the granite considerable timber is required to support the roof. The winning of ore from a small vein under these conditions is difficult and expensive.

Samples taken gave as follows:—Selected specimens of quartz containing "black sulphurets": Gold, 0.42 oz.; silver, 52.3 oz. Grab sample from small pile of sorted ore: Gold, 0.79 oz.; silver, 74.2 oz. Sample across 6-inch band of porphyritic granite in the foot-wall of the vein: Gold, 0.68 oz.; silver, 141.9 oz.

Laboratory tests show the ore to be well adapted to the flotation process, but a considerable outlay will be necessary on development with a view to assuring the ore-supply which would warrant the installation of a small plant.

Black Prince.—Situated at a distance of 9 miles from Slocan and operated by J. T. Tipping. The property has been a small but steady producer for a number of years. The principal values are in silver.

Anna.—Situated near the *Ottawa* on Springer creek. The property is owned by K. Zimmerman, who operated it during the early part of the year and made a small shipment to Trail. The ore is the characteristic "dry ore" of this district and carries high silver values.

L.T. Group.—Situated at about 3 miles from the *Ottawa*. D. B. O'Neail, of Slocan, who is the principal owner, put in a season's work at the property.

Hampton.—Situated near the head of Springer creek and worked under lease by Barber, Wafer & Moran. The results of the season's work were encouraging and development will be continued during the winter months.

SHIPPING-LIST, SHOWING APPROXIMATE TONNAGE MINED.

Mine.	Locality.	Weight.	Character of Ore.
		Tons.	
Ottawa	Springer creek	1,440	Silver.
Anna	„	20	„
L.T.	„	11	Silver-lead.
Black Prince	Lemon creek	51	„

NELSON MINING DIVISION.

There has been more than usual activity among the gold properties of this Division during the past season, though most of the work has been confined to prospecting and development, the results of which it is hoped will be manifested in the near future by additional mines on the shipping-list.

The principal source of production has been from the Nugget Gold Mines, Limited.

The principal lead-producers of the Division—namely, the *Molly Gibson* and the *Emerald*—have experienced a quiet season. The former property, which belongs to the Consolidated Mining and Smelting Company, has been leased to W. A. Cameron, who intends to employ a small crew of men at the mine this winter. During the summer the aerial tramway was partly destroyed by fire.

Nugget Gold Mines.

Harold Lakes, the manager, reports that milling operations commenced on April 28th and ceased on November 1st. During this time 10,920 tons of ore was mined and milled; the estimated recovery is $68,637. The average number of men employed when running at capacity was forty at the mine and fifteen at the mill, which latter included office staff, superintendent, assayer, etc. During the winter eight men will be employed at development of the *Nugget* vein.

Reno.

W. B. Pool, who for a number of years has been systematically uncovering a series of gold-quartz veins by trenching and open-cuts, has now formed the Reno Gold Mines, Ltd., of which he is president, T. Kilpatrick vice-president, and James O'Shea secretary. The capital of the company is $1,000,000, divided into non-

assessable shares of $1 each. It is understood that the intention is to first prove the veins at depth by drifting from the surface and crosscutting; then, if results are satisfactory, to install the necessary plant for mining and treatment of the ore.

Bayonne.—This property is under option to John B. White and associates, of Spokane. About 15 tons of winter supplies have been packed in over the Sheep Creek trail from the end of the wagon-road at the *Motherlode* mill. About ten men will be employed through the winter under the management of B. N. Sharp. The ore is gold quartz occurring as a fissure-vein in granodiorite.

Spokane Group.—Situated near the head of Canyon creek. As a result of steady work extending over a number of years, Laib Bros. (the owners) now have a considerable tonnage blocked out. The principal values are in gold and silver.

California-Athabasca.—These properties are being operated by the California Mining Company. Further improvements have been made to the mill and it is confidently expected that the property will be on the shipping-list next year.

Granite-Poorman.—This well-known property was acquired early in the year by the Granite-Poorman Mines, Limited, in which A. C. Bowness and associates are principally interested. Underground and surface exploration have been steadily proceeded with. During the winter it is proposed to do an additional 50 feet of tunnelling and 250 feet of raising under contract.

Gold Hill.—This property has been worked for the last two seasons by George Gormley. During the year 96 tons of ore was shipped to Trail. The principal values are in gold and copper, the former occasionally running as high as 5 oz. to the ton.

Champion.—Situated near Park Siding, on the Great Northern Railway. S. N. Ross put in a season's work at the property. A shipment of 20 tons of gold-quartz ore was made to Trail.

Monarch.—Situated near Hall, on the Great Northern Railway. J. Fisher has taken in a diamond-drill outfit with the intention of working during the winter.

Silver Reef Group.

This property, comprising a group of four claims—namely, the *Rover*, *Silver Reef*, *Butte City*, and *Pictou*—is owned by W. J. Richards, of Nelson. The claims cover an area between the two forks of Anderson creek and are conveniently situated to the Great Northern Railway at a point about 3 miles east of Nelson. Good water for camp purposes and timber for mining are available in the immediate vicinity of the workings.

The vein, which has a strike of N. 20° W. and an almost vertical dip, cuts a formation of granodiorite which forms a rounded ridge between the two small branches of the creek. It is a well-defined true fissure-vein in which the typical banded structure is well developed. The vein-filling is of white quartz in which the ore occurs in two distinct bands, presenting a ribbon-like structure.

Some years ago a drift was run in a southerly direction from the bank of the North fork, developing good backs and establishing the continuity of the vein for 260 feet. The average width is apparently about 2 feet, though this could not be accurately determined, as the vein could only be seen at intervals through the lagging. The granite on the west wall is soft and decomposed, while on the other wall it is more massive.

At a point 260 feet from the portal there has been a movement which has somewhat complicated matters, and for 70 feet the vein swings to the east and is not so strongly defined, leaving doubt as to whether it is the true continuation of the vein. A lamprophyric dyke which seems to follow the line of fissuring is noticeable, and at the face of the drift forms both walls of the vein. In the opinion of the writer the continuation of the vein at the end of the drift will probably be found to lie between the granite and the dyke; the latter, being post-mineral, may have either caused faulting or splitting of the vein; hence a little crosscutting near the end of the drift would seem advisable, or, if the overburden is not too great, trenching vertically above the change in direction of the vein should be a valuable guide to future underground work.

At a point 200 feet from the portal the vein has been stoped to a height of about 35 feet above the tunnel. This stope has a length of about 35 feet. A composite sample across an average width of 8 inches from three different places up the ladderway gave the following results: Gold, 0.12 oz.; silver, 4.8 oz.; lead, 14.5 per cent.; zinc, 11.7 per cent.

The ore consists principally of a mixture of coarsely crystalline galena and zinc-blende, carrying values in gold and silver.

Humming Bird.* This group, consisting of the *Humming Bird* and *Queen Elizabeth* claims, owned by Robert Qua and R. G. Joy, of Nelson, is situated at the head of 5-Mile and Roaring creeks at an elevation of from 5,400 to 5,600 feet. To get to the claims the present route is by a trail about 10 miles in length from the Mountain Station at Nelson. This trail, which contains many steep pitches and adverse grades, follows the heights on the eastern side of Cottonwood creek, more or less parallel to the Great Northern Railway, whereas a much easier trail about 4 miles in length could be constructed down Roaring creek to connect the property with Apex.

The geological formation of the area embraces slates, phyllites, and schists, in which bands of quartzite and limestone occur; the whole being classified as the Nisconlith series. To the south and south-east of the series there is an extensive belt of granite. In the immediate vicinity of the workings the country-rocks are quartzite and siliceous schist.

Following the discovery of some rich gold-bearing float in the bed of a small creek (tributary to 5-Mile creek just below the watershed separating that creek from Roaring creek), the owners did considerable ground-sluicing in heavy wash, which resulted in the uncovering of segments of two parallel veins a little above the creek-bed.

The veins are well defined between smooth walls conforming to the stratification of the enclosing rocks, which dip at about 39° towards the south-east, or into the hill. The associated minerals are galena, zinc-blende, pyrite, and arsenopyrite, with some free gold, in a quartz gangue.

High gold values are associated with the arsenopyrite, which fills small cavities and vugs in the quartz, while appreciable amounts of coarse gold can be panned from quartz which shows a layer-like or "ribbon" structure. There is generally little oxidation in evidence to which local concentration of the metal could be attributed, even barren-looking quartz giving colours on panning.

The upper vein, from 1 to 2 feet in width, is partially exposed along its outcrop for a distance of 100 feet, with an open-cut at the north-east end and a 10-foot incline shaft at the south-west end. The open-cut is in an ore-shoot of which a length of about 10 feet is exposed so far (heavy overburden covers the north-easterly continuation of the ore-shoot). An average sample across 2 feet in the open-cut gave: Gold, 6.26 oz.; silver, 3.9 oz.; lead, 5.5 per cent.; zinc, 1.9 per cent. Selected specimens of quartz and arsenopyrite from the same place gave: Gold, 3.14 oz.; silver, 2.3 oz.; lead, 2.4 per cent.; zinc, 0.4 per cent.

The lower vein, which is about 50 feet from and a little below the upper vein, is about 30 feet vertically above the creek-bed. Segments of this vein, exposed in two open-cuts 50 feet apart along its outcrop, show an average width of 1 foot. In these cuts the quartz is sparingly mineralized, but further work along the strike may disclose an ore-shoot.

The showing in the open-cut on the upper vein is very attractive and may be the commencement of an ore-shoot of appreciable length. The prospect has many natural advantages, situated as it is at a comparatively low altitude, within easy reach of the railway (if a trail is built to Apex), and having a plentiful supply of timber for mining purposes close at hand, while water-power could probably be cheaply developed on Roaring creek at a short distance from the claims.

Big Porcupine.* This claim, same owners, is situated above the *Humming Bird* group at an elevation of about 6,300 feet (cabin). Two parallel quartz veins, containing bunches of silver-lead ore of the concentrating type, cut the granite in an easterly and westerly direction, with average dips of about 30° to the north. The veins vary in width from 4 to 7 feet and are about 300 feet apart (roughly estimated), being developed by two shallow incline shafts and some open-cuts, in which is exposed some galena, zinc-blende, and pyrite disseminated through the quartz. No samples were taken by the writer, but assays are said to have returned as high as 40 oz. silver to the ton.

United Verde.* This property (formerly the *Southern Belle*), consisting of the *Melrose*, *United Verde*, *Victoria*, *Silver Tip*, and *Jessie* claims, owned by the Trail Mining Company (J. Rozeck, superintendent), is situated on Wilson creek about 3 miles by trail from the end of the wagon-road at the Lost Creek bridge, or a total distance of 12 miles from Salmo. The old workings are described on page 172 of the Report of the Minister of Mines for 1918. In this year the *Southern Belle* group and adjoining claims were acquired by

Kitchener—C.P.R. Iron Properties.

Kitchener—C.P.R. Iron Properties—Diamond-drill Hole.

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the present owners from C. E. Wilson, of Salmo. Since then considerable work has been done, including about 675 feet of tunnelling (up to the time of the examination in May, 1921).

The new work consists of a 600-foot crosscut, gaining a depth of several hundred feet on the old workings, and some drifting on the leads. The crosscut intersects two parallel quartz veins which strike N. 50° E., with dips varying from 70° to 76° to the south-east, or into the mountain.

The principal lead, encountered in the crosscut at 580 feet from the portal, is 15 feet wide, between smooth, clearly defined walls, from which the ore breaks freely. Galena is irregularly disseminated in bunches and stringers throughout the entire width of the lead, which was drifted on for 30 feet. This drift, widened to the full width of the vein, showed mineralization throughout, with ore in both faces. A sample across 15 feet gave: Gold, 0.08 oz.; silver, 12.9 oz.; lead, 21.6 per cent.; zinc, 1.3 per cent. According to recent reports this drift has since been continued some distance with good results.

From the intersection of this big vein in the crosscut to its outcrop there is an estimated depth of 375 feet of stoping-ground. The other vein, which amounted only to a stringer where encountered at 360 feet from the portal, widened out to 30 inches when drifted on for a short distance. A sample across 30 inches gave: Gold, 0.06 oz.; silver, 4.3 oz.; lead, 8.2 per cent.; zinc, 5.4 per cent. From the intersection of this vein in the crosscut to its outcrop there is an estimated depth of 250 feet of stoping-ground. A further depth, roughly estimated at 600 feet, could be gained on the present lowest workings by tunnelling.

The company has acquired water rights for power purposes on Wilson creek and the South fork of the Salmon river with a view to the erection of a small concentrator.

High Ore.* This property, consisting of the *Good Hope*, *Gold Note*, *Free Gold*, *High Ore*, and *Mika Chaka* claims, owned by Alec. Long, of Nelson, is situated at an elevation of about 3,500 feet (cabin) on the mountain-slope about three-quarters of a mile westerly from Eagle creek, and is reached by a trail about 1 mile in length which branches off the upper *Granite* road at Eagle creek. The total distance from Nelson to the claims is about 6 miles.

Two parallel quartz veins cut the granite formation in a southerly direction, or straight up the mountain, dipping at about 60° to the east. The veins, which are about 250 feet apart, vary in width from 6 inches to 2 feet.

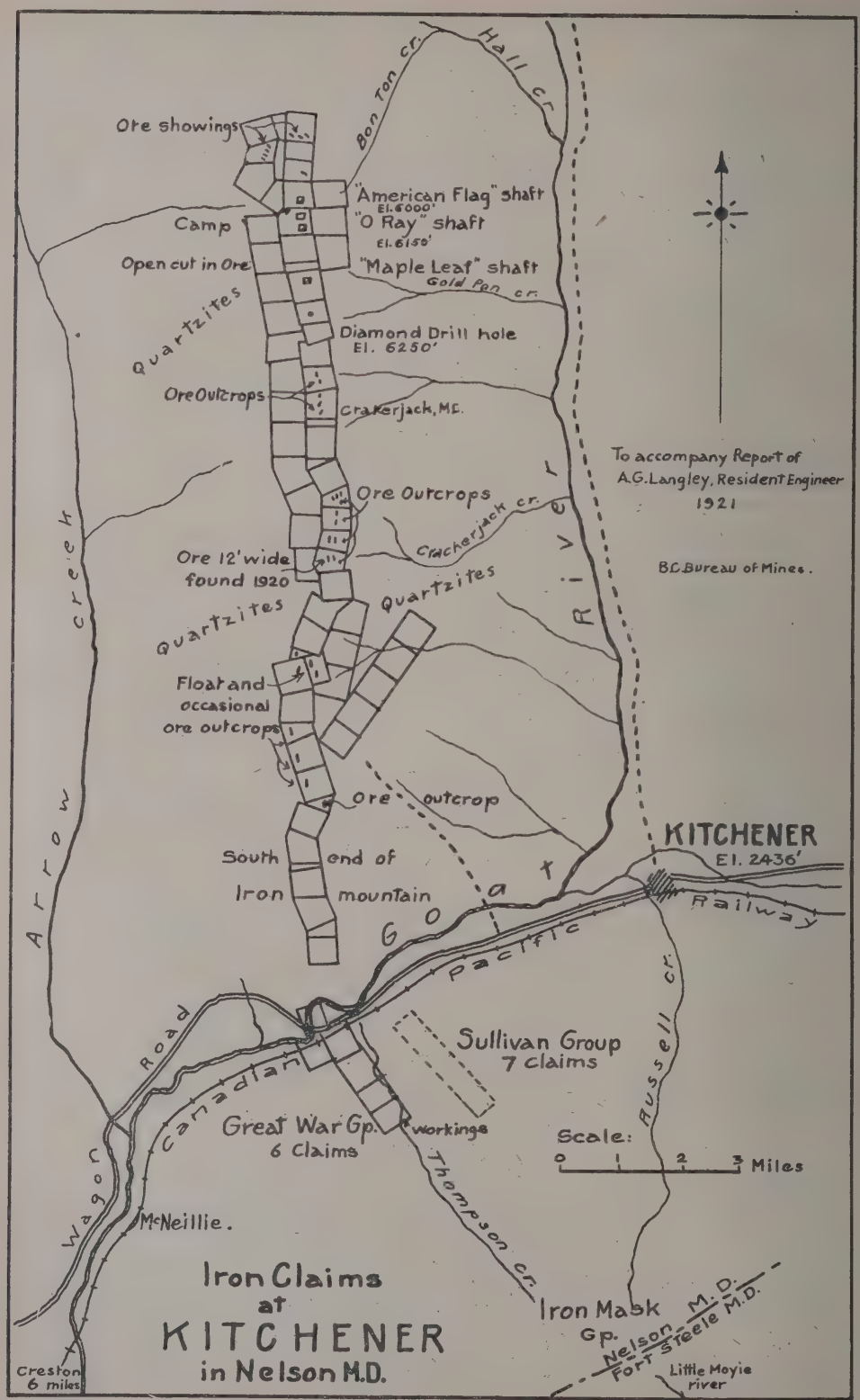
Free gold occurs chiefly in the leached and oxidized portions of the veins, which have been opened up for several hundred feet along the surface by means of short tunnels and open-cuts. Six samples taken at different points across widths varying from 6 inches to 2 feet gave an average value of $6.20 in gold to the ton. The highest values are probably confined to streaks and lenses in the veins.

Kitchener Iron-deposits.

A long string of claims comprising four groups cover an iron-bearing zone, which crosses the Crowsnest Pass Railway at a point near Kitchener and extends in a northerly direction, paralleling Goat river for a distance of approximately 8 miles. The *Great War* group, owned by the British Columbia Iron Company, and the *Iron Mask* group, owned by R. Lamont and associates, of Creston, lie to the south of the Crowsnest Pass Railway and extend to the headwaters of the Little Moyie river. Another group, known as the *C.P.R.* group, covers all of the principal surface showings north of the railway and extends some 8 miles up Goat river. Adjoining these claims there is still another large group owned by C. P. Hill. On this latter group very little prospecting has been done so far.

Geology.

This area is underlain by quartzites which have been classified by Dr. S. J. Schofield, of the Geological Survey, as belonging to the Aldridge formation of Pre-Cambrian age. These rocks have been intruded by a wide dyke of diabase, distinctly green in colour and varying in texture from a granitoid to a finely crystalline rock. It can be easily distinguished in the field from the more common diorites and gabbros forming the Purcell sills. It outcrops at intervals along a persistent strike of about N. 10° W., sometimes forming big masses of over 1,000 feet in width and at others forming dyke-like intrusions. The quartzites show many variations in dip and strike, and in places where there has been intense shearing have been converted to rocks resembling chloritic schists along a narrow margin of their contact with the green igneous rock.


Ore showings
Bon Ton cr.
Hall cr.
"American Flag" shaft
El. 6000'
"O Ray" shaft
El. 6150'
Camp
Open cut in Ore
"Maple Leaf" shaft
Gold Pan cr.
Quartzites
Diamond Drill hole
El. 6250'
Ore Outcrops
Crakerjack, M.C.
To accompany Report of
A.G. Langley, Resident Engineer
1921
Ore Outcrops
Crackerjack cr.
B.C. Bureau of Mines.
Ore 12' wide
found 1920
Quartzites
Quartzites
ARROW CREEK
KOOTENAY RIVER
Float and
occasional
ore outcrops
Ore outcrop
KITCHENER
El. 2436'
South end of
Iron mountain
Great Northern Railway
Pacific
Sullivan Group
7 claims
Russell cr.
Canadian
Great War Gp.
6 Claims
workings
Scale:
0 1 2 3 Miles
Wagon Road
McNeillie.
Thompson cr.
Iron Claims
at
KITCHENER
in Nelson M.D.
Iron Mask Gp.
Nelson M.D.
Fort Steele M.D.
Creston
6 miles
Little Moyie
river

This is noticeable at the head of Thompson creek. The diabase has also been subject to shearing and has been altered to chloritic schists in certain localities. Owing to the hillsides being covered with brush and overburden the lateral boundaries and continuity of the diabase have been difficult to trace, and further prospecting may yet reveal that it covers a far greater area than the present exposures would indicate.

The important feature of this intrusion, from an economic standpoint, is that hæmatite is found to occur always associated with the diabase, either in the rock or near its contact with the quartzites. The largest bodies of hæmatite so far discovered occur along the contact of the quartzite and dyke and constitute wide bands of high-grade hæmatite, which gradually grade into lean siliceous ore, due to the process of replacement of the quartzite wall.

In places the hæmatite forms a matrix of a siliceous breccia; it also forms veinlets both in the quartzite and dyke-rock. Taking these facts into consideration, and as both the quartzites and dyke-rock show evidence of shearing, it would seem reasonable to assume that subsequent to the intrusion of the latter a zone of fracturing was formed having a northerly and southerly trend and closely following the line of contact. That channels were thus provided for the iron-bearing solutions and ore-bodies were formed along the line of least resistance, both in the quartzite and diabase. The iron, probably originating from the same magma as the dyke-rock, represents a different phase of its mineralization.

C.P.R. Group. This property, comprising thirty-two Crown-granted claims, extends from a short distance north of the Crowsnest Pass Railway for about 8 miles up Goat river. The group consists of Lots 5765 to 5787 (inclusive), 5790 to 5795 (inclusive), and Lots 5835, 5839, and 5840. Registration is in the name of the Royal Trust Company. The claims are staked along the summit of the ridge which forms the divide between Goat river and Arrow creek. On the easterly side the slope of the ridge is dissected by small creeks. These terminate in basins at 1,000 feet or so below the summit, leaving bluffs and escarpments above. On the western side the slopes are more uniform and gradual. The elevation of the surface exposures, on which most of the work has been done, is about 6,000 feet, or some 3,000 feet above Goat river.

Past History.—The claims were originally located in about 1899 by C. P. Hill and were bonded to the London and British Columbia Gold Fields, who primarily confined their attention to prospecting for copper. At this time, probably due to the Rossland excitement, it may be noted that every iron-capping in the country was staked, not for iron, but for the possibilities of finding copper beneath the iron-stains, so this particular area proved an attractive field for the prospector.

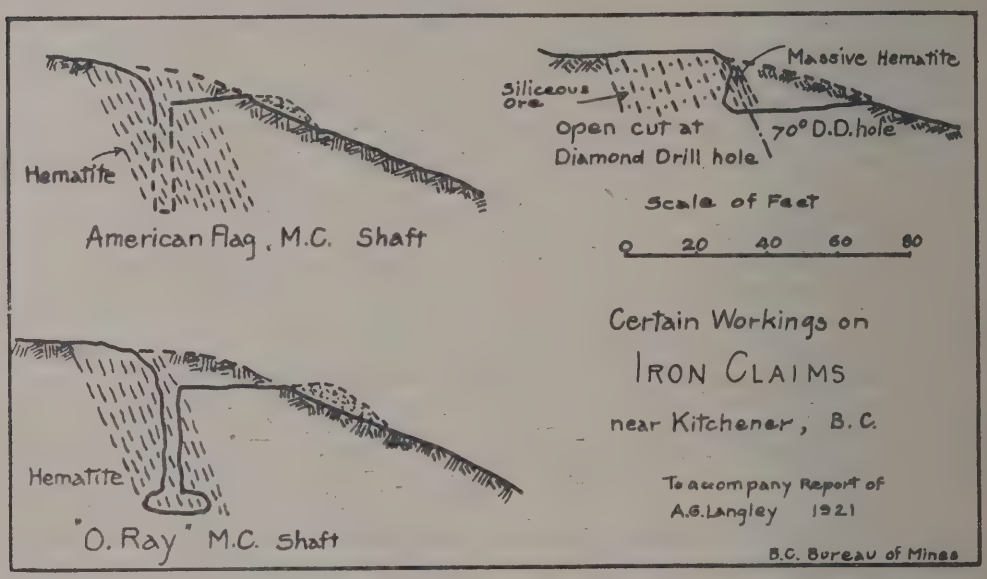
In 1901, C. P. Hill, acting on the advice of W. Blakemore, consummated a deal with a Montreal syndicate closely allied with Canadian Pacific Railway interests and composed of Lord Shaughnessy and associates. Prospecting and development work was done in 1901 and 1902.

Camp.—The camp is situated at an elevation of 6,150 feet on the summit of the ridge between Goat river and Arrow creek. The distance by trail from the railway is about 12 miles. The buildings consist of three cabins, all of which are in a fair state of repair.

Workings.—The most northerly working visited by the writer is on the *American Flag* claim at a short distance from the camp. Here a deep open-cut has been driven across the vein and a 35-foot shaft sunk on the foot-wall side. The shaft was full of water, but it was evident from the dumps that it had been sunk in ore. A sample taken across 10 feet of hæmatite exposed at the top of the shaft assayed as follows: Iron, 55 per cent.; sulphur, trace; phosphorus, *nil;* silica, 6.1 per cent. The ore is a massive black hæmatite which breaks easily under the hammer. The strike of the vein at this point is N. 10° W. and dip 75° to the west, with the slope of the hill, which is about 25°.

The next working is situated at approximately 1,500 feet to the south, on the *O'Ray* claim. At this point another 35-foot shaft has been sunk on ore. At the bottom of the shaft an 18-foot crosscut has been run from wall to wall. Across this width a representative sample was taken, which ran as follows: Iron, 55.2 per cent.; sulphur, *nil;* phosphorus, trace; silica, 7.9 per cent. The wall-rock exposed in either face of the crosscut was decomposed quartzite heavily impregnated with iron. The same dip and strike maintain here as at the *American Flag* shaft. Other work indicates that the ore-body extends for at least 150 feet south of the shaft. Throughout the iron-bearing zone the ore probably occurs in lens-like bodies, and, as the conditions at the

above-mentioned shafts are similar, there is just a possibility that they may both be sunk on the same lens, although there has been no work done to prove the continuity of the ore between them. On the assumption that they are on the same ore-body, a conservative estimate of the possible tonnage would be as follows: 1,500 feet by an average width of 14 feet by a depth of 1,000 feet gives over 2,500,000 tons. Should there be two separate lenses, there would be a possible tonnage of between 800,000 and 1,000,000 tons, providing the ore is continuous to a depth of 1,000 feet.



At a distance of about 2,000 feet in a southerly direction from the *O'Ray* shaft another shaft has been sunk for a distance of 30 feet. It is now filled in, but there is high-grade hæmatite on the dump, the proved width of which is said to have been 9 feet.

The next showing of importance is at the diamond-drill hole on the *Keepsake* claim; this is some 2,000 feet southerly from the last-mentioned showing. At this point the vein has a width of about 50 feet and apparently lies between diabase on the foot-wall and quartzite on the hanging-wall. Its strike and dip are similar to that at the other showings.

The width of the vein across the outcrop is about 50 feet. A deep open-cut has been driven for about 15 feet, exposing in cross-section an 8-foot band of good ore near the hanging-wall; the remaining 42 feet consists of lower-grade siliceous ore. A sample across the 8 feet gave the following returns: Iron, 46 per cent.; sulphur, *nil;* phosphorus, *nil;* silica, 26.5 per cent. This ore is more micaceous than that at the other exposures.

Diamond-drilling was attempted in 1901 with a small gasolene-driven outfit. The hole, which follows the dip of the ore—namely, 70°—is said to have proved ore for 300 feet, but does not give any useful information regarding the width of the ore at this depth. Trenching across the southerly extension of this ore-body has not been adequate, but would indicate the probable continuation of the ore in this direction for at least 200 or 300 feet.

By continuing in a southerly direction along the contact of the dyke-rock and quartzite, numerous other showings may be seen at intervals from the camp to Goat river, some of which indicate the presence of either parallel or nearly parallel veins, accompanied by offshoots from the main igneous mass.

The same character of ore and similar geological conditions are found to prevail at the head of Thompson creek, at a distance of about 4 miles south of the railway, though the continuity of the zone has been interrupted by a big break in the formation, through which Goat river flows in a south-westerly direction.

Conclusions.

The above brief description suffices to show that the hæmatite is distributed over a big area, and that it is invariably associated with the intrusive dyke of diabase, which latter represents an immense mass of igneous rock extending for many miles in a northerly and southerly direction. Such conditions would appear favourable for the deposition of large ore-bodies in certain localities.

The strong showings opened up by surface diggings have not been developed sufficiently to define their boundaries, while the surface has not been thoroughly prospected. For instance, it was only last year that a new discovery was made by George Young, when a 12-foot width of high-grade hæmatite was uncovered on the *Pacific* claim, situated about midway between the camp and Goat river.

The property is conveniently situated to the railway and is within easy reach of the Crowsnest coalfields at Fernie, where a metallurgical coke of high quality can be produced. Water-power for mining purposes could be developed at Goat river.

Should the owners decide upon extensive development, their action would be, in the opinion of the writer, fully justified, the field having undoubted potentialities.

TRAIL CREEK MINING DIVISION.

There has been a considerable increase in production of gold-copper ores from the properties of the Consolidated Mining and Smelting Company at Rossland. The tonnage shipped up to the end of 1921 is 82,093 tons.

The properties owned by this company include the *Centre Star*, *Le Roi*, *War Eagle*, and *White Bear* mines, which are all connected by underground workings and constitute one large mine with a total of about 60 miles of underground workings. The amount of ore extracted from this group since 1894 represents about 5,000,000 tons.

Recent developments have proved good-grade ore on the 1,650-foot *Le Roi* level, which corresponds to the 1,400-foot level of the *Centre Star*. From this ore-body one has to travel for about 1½ miles underground to reach the north-easterly end of the mine-workings.

These facts alone leave room for reflection on the great asset these properties have been to the Province, by the employment of labour and wealth of metals produced.

Le Roi No. 2. The production of this property also covers a number of years, dating back to the early nineties. In 1900 the present owning company, the Le Roi No. 2, Limited, was incorporated. Up to 1911 this company paid about $1,500,000 in dividends; later records of results obtained are not available at the time of writing, but no doubt would show considerable profits.

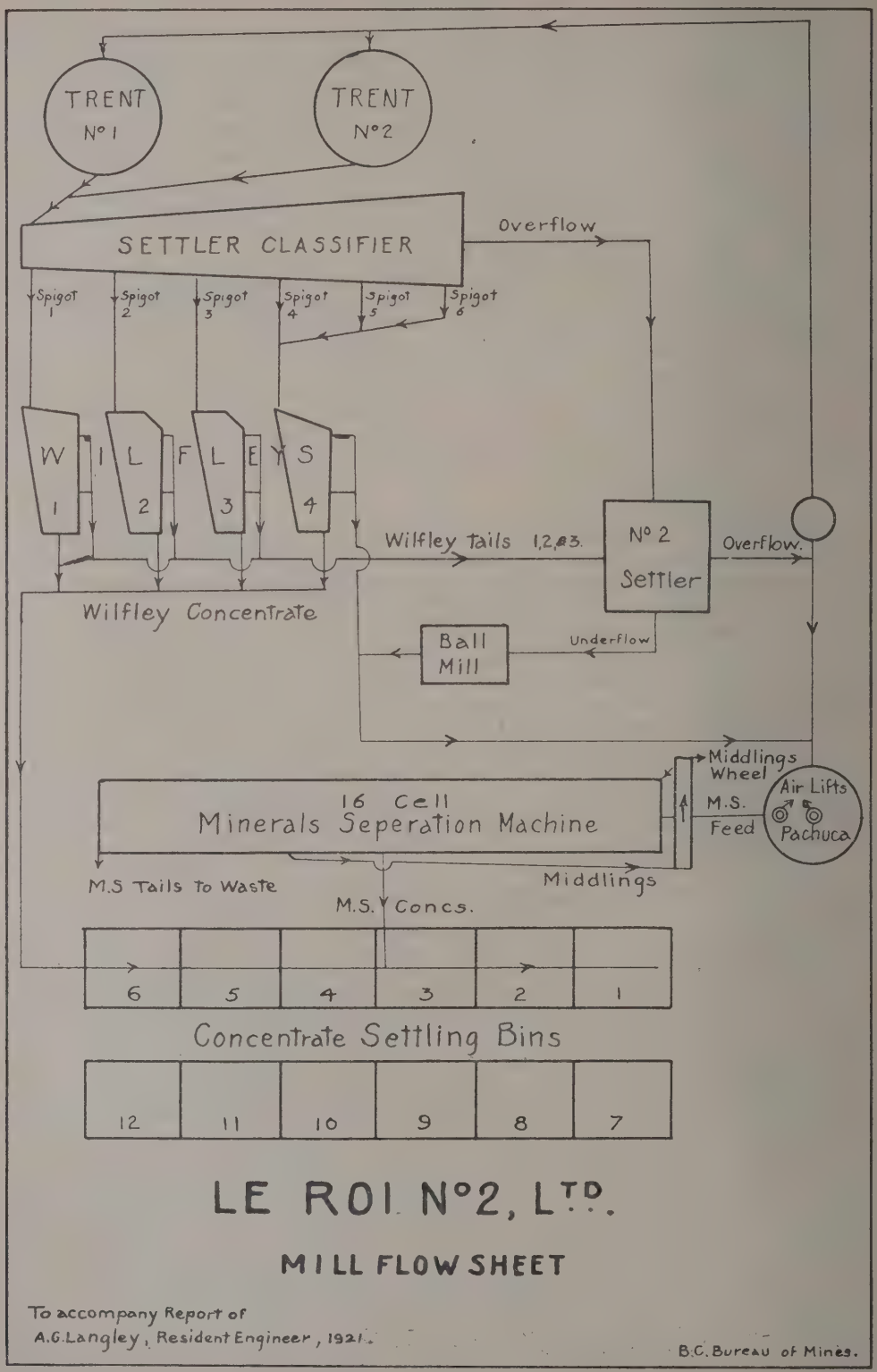
Under the management of D. Lay, the mill has been recently remodelled and a 16-cell, M.S.-type flotation-machine installed. The capacity of the mill is 75 tons a day. Milling operations began in August and over 700 tons of concentrates were shipped to Trail to the end of 1921.

I.X.L. This property was staked in 1891 by Thos. Heady. It is now owned by John S. Baker, of Tacoma, and is being operated under lease by R. B. Shelledy and associates. The claim is situated near the Northport road at a distance of 2½ miles west of Rossland. Old records show that small quantities of high-grade gold ore have been shipped from time to time, the last shipment being made in about 1913.

So far the present lessees have shipped a small tonnage of exceptionally high-grade gold ore. The first shipment of 1,704 lb. returned 183.67 oz. of gold and 29 oz. of silver. The second shipment of 301 lb. of ore returned 140.3 oz. of gold and 23 oz. of silver. These shipments represent values of 215.6 and 932 oz. of gold to the ton of ore, respectively.

Hattie and Richmond. These claims are situated at a distance of 1¼ miles south of Rossland. They are owned by S. Forteath and associates, of Rossland. The country-rock is chiefly composed of a fine-grained monzonite cut by numerous basic dykes.

A series of small tightly frozen veins has been exposed by open-cuts and shallow shafts. These veins have an east-and-west strike and dip at about 75°. The continuity of the mineralization is not pronounced, the ore apparently filling cavities at intervals along a fairly persistent strike. Any one of them taken as an individual deposit would not represent an ore-body of any great commercial importance, as far as could be ascertained by the limited


TRENT N°1
TRENT N°2
SETTLER CLASSIFIER
Overflow
Spigot 1
Spigot 2
Spigot 3
Spigot 4
Spigot 5
Spigot 6
WILFLEY
1
2
3
4
Wilfley Tails 1,2,&3.
N° 2 Settler
Overflow.
Wilfley Concentrate
Ball Mill
Underflow
Middlings Wheel
16 Cell Minerals Seperation Machine
M.S. Feed
Air Lifts
Pachuca
M.S Tails to Waste
Middlings
M.S. Concs.
6
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Concentrate Settling Bins
12
11
10
9
8
7
LE ROI N°2, LTD.
MILL FLOW SHEET
To accompany Report of
A.G. Langley, Resident Engineer, 1921.
B.C. Bureau of Mines.

amount of work so far done. It is possible that at a depth they may show greater strength or consolidate to form an ore-body of considerable dimensions.

Samples taken across narrow widths from the various showings all gave gold values, of which the following are a few examples: A sample across a pocket of oxidized ore 26 inches wide ran: Gold, 2.01 oz.; silver, 1.7 oz. At a short distance from where this was taken, and on the same vein, a sample across 1 foot at the bottom of a shallow open-cut ran: Gold, 0.33 oz.; silver, 5.3 oz.; copper, 5.02 per cent. A sample taken of decomposed vein-matter from one of the other parallel veins ran: Gold, 1.10 oz.; silver, 2.8 oz. The sulphide ore is a mixture of arsenopyrite, pyrite, and chalcopyrite.

To the south of the *Hattie* are the old workings of the *Lily May*, the first property to be operated in the camp. Here a shaft was sunk 207 feet on a vein having a strike of north-east and occurring in the sedimentary rocks of the Mount Roberts formation. The mineralization is of quite a different character to that at the *Hattie*, the principal values being in silver, with which is associated galena, iron pyrites, zinc-blende, and occasionally stibnite in a quartz gangue. Past records show that only very little ore was won from this vein. The principal development-work has been done at a depth, and as the shaft was full of water these workings could not be examined. After lying idle for a number of years active development was undertaken in 1913 by the Richmond Consolidated Gold Mines, Limited, under the management of J. L. Warner.

The following is an extract from a report by the Gold Commissioner in the Annual Report of the Minister of Mines for 1913: "The *Lily May* was unwatered about September 1st, since when underground work was continuously carried on until December 23rd. Some 600 feet of work was done in exploring the *Lily May* vein and in running north and west drifts. In the west drift a large amount of mineralized ground was encountered, but, while occasional assays gave workable values, the average was below that standard. This drift, now heading north, requires to be driven a considerable distance to reach its objective point—namely, vertically under a surface showing that gives high values in gold and copper-gold from $2 to $140 per ton. . . . A northerly drift started from the bottom of the shaft is in 297 feet, and was driven to cut a series of five veins, all cropping within a width of 250 feet on the *Richmond* and *Hattie* claims. This drift will have to be extended 160 feet to intersect the first of these veins."

From the above it will be seen that the exploratory work being carried on at this property had an important bearing on the *Hattie*, and it is to be regretted that the funds gave out before the northerly tunnel had gained a sufficient length to cut the series of veins referred to.

Velvet-Portland.* This gold-copper property is situated 6½ miles south-west from Rossland, on the north-west slope of Sophie mountain, in the valley of Big Sheep creek opposite Santa Rosa creek, and is connected by wagon-road to the Great Northern Railway siding 9½ miles distant (the Rossland branch of this railway recently ceased operations). A full description of the property and its history, which dates back to 1897, is published on pages 154–158 of Geological Survey, Memoir No. 77, "Geology and Ore-deposits of Rossland" (1915).

In 1918 the Granby Company had a lease and bond on the property, and is said to have pumped out the lower levels and to have done some diamond-drilling below the sixth level, where an important body of sulphide ore was encountered. When, however, this company discontinued mining and smelting operations in the Kootenays, it relinquished its lease of the *Velvet-Portland*, which again relapsed into inactivity.

In 1920 the property was acquired by the Rossland-Velvet Mines, Limited, the promoters of which are practical mining and business men of Rossland (E. Nordman, president; J. W. Gregory, secretary). In that year between 400 and 500 tons of ore was shipped to Trail and Northport smelters. Shipments in 1921 amount to 55 tons shipped to Trail (Northport smelter was closed down early in the year).

The ore shipped by the present owners was extracted from stopes on the upper levels south of the main *Velvet* shaft. This area has proved the most productive in the mine and has been fairly thoroughly exploited. The upper three levels are in a zone of marked oxidation, which appears to extend down in places to the fourth level, where the first sulphide ore was encountered. In the zone of oxidation the principal values are in gold.

The present owners intend to continue shipping ore that may have been overlooked on the upper levels, and to drive a tunnel about 1,000 feet to tap the veins at a depth of approximately

250 feet below the sixth level, and get into the ore that was encountered with the diamond-drill, as well as other ore-bodies that may be found. On completion of this tunnel and shaft connection the mine will be drained to that depth, thus eliminating the heavy expense of pumping the water out, a factor which has prevented the present operators from working on the lower levels.

Hitherto the property has been seriously handicapped by the excessive cost of transportation, including the long haul to the railway. Now, however, the survey for the Trans-Provincial Highway crosses the property. There are about 4½ miles more of this road to be built to reach the *Velvet-Portland*. The completion of this link will enable the owners to ship ore by motor-truck to Rossland; thence by railway to the Trail smelter, thus materially reducing transportation charges. Mining operations also will be greatly facilitated by the opening-up of the road.

Trail Smelter.

The shipping-list for the year shows that ore received for treatment at this plant amounts to approximately 400,000 tons. The bulk of this comes from the company's mines, notably the *Sullivan* at Kimberley. The balance is distributed among sixty-three independent shippers, of which forty-seven are operating in the Eastern Mineral Survey District. The continuous operation of this great metallurgical plant, with a record production of both zinc and lead, has been a bright spot in the history of the metalliferous mining of the district for the year. It is especially remarkable in view of the severe decline in metal prices, which caused stagnation in many of the large mining camps of the United States and the closing-down of numerous metallurgical plants.

This record was achieved by the economic mining of an immense tonnage at the *Sullivan* mine and the successful application of most up-to-date metallurgical practice. A few years ago it would not have been possible, for then the cost of producing 1 lb. of zinc exceeded the present market value of the metal; so, needless to say, great strides have been made in the recovery and separation of lead and zinc from the complex ores of the *Sullivan* mine. In this connection selective flotation has been a very important factor. The result of the season's work cannot help but reflect credit on the management, for such an achievement means good organization and general efficiency of the staff.

In September the Consolidated Mining and Smelting Company issued an amendment to its schedule of smelting rates, the essence of which is as follows: Under the existing Schedule C the quantity of silver and lead to be paid for was diminished by a sliding scale for ores carrying 10 per cent. zinc and over. This has been abolished. The amount of exchange allowed for the net value of gold and silver paid for will be that in excess of 3 per cent. instead of 5 per cent. as previously. The price for lead to be used in settlement will be the London Metal Exchange spot quotation for soft Spanish lead. The treatment rates as in Schedule C are unchanged, except the charge for zinc will be 50 cents per unit instead of 60 cents. Payment in full will be made in ninety days after date of arrival. Drafts will be accepted for all or part of the value, which doubtless could be negotiated without trouble at any bank. Interest during this period will be borne by the shipper.

The circular issued by the company goes on to say: "The price of lead is low on account of the large quantities in keen competition in the Orient. The Canadian market is taking only a small quantity. The intention is to vary the lead payment from time to time to suit conditions. Stocks are very large at present, which, added to the poor market conditions, makes it necessary to defer payments. We hope to be able to reduce the time of payments as conditions become better."

Since this circular was issued the company has notified the shippers that owing to the satisfactory reduction of surplus stock, beginning with January 1st, 1922, it will make payments as soon as possible after sampling; in other words, pay spot cash.

REVELSTOKE, TROUT LAKE, LARDEAU, AND ARROW LAKE MINING DIVISIONS.

Generally speaking, mining activities in these Divisions have been principally confined to leasing and prospecting, no operations on a large scale having been carried on. During the summer months things were unusually quiet, but latterly there seems to be a more optimistic feeling prevailing in the different mining centres, which would indicate that we can look for an improvement in conditions next year.

REVELSTOKE MINING DIVISION.

The activities during the season may be summarized as follows: A few men were employed at the *Lanark* mine during the summer months. At the *Waverly-Tangier* group several men

were employed at the mine and a crew of nine men on road-repair work. D. Woolsey did some prospecting on a deposit of amphibole asbestos near the main line of the C.P.R. in the vicinity of Illecillewaet. In the Big Bend district lode mining and prospecting generally has been inactive, although gold placer mining has been continued in the neighbourhood of Goldstream and French creeks by Alec. McRae, Remillard, J. C. Montgomery, and a few other old timers. Gus Lund and his partner spent part of the season prospecting their claims near Goldstream.

Big Bend District.

This area lies immediately north of Revelstoke and is bounded, as the name implies, by the Big Bend of the Columbia river. A trip was made into this country during the early part of September, but unusually wet and stormy weather greatly interfered with prearranged plans and limited the amount of useful work that could otherwise have been accomplished. The early history of the district relates that placer-mining was actively carried on in the sixties, when many of the tributary creeks of the Columbia river were prospected and some of the river-benches worked. In these times a thriving mining camp existed at Goldstream, steamboats plied up the river as far as the mouth of Downie creek, and never a day passed during the season that there was not a long pack-train on the trail taking in supplies from Revelstoke.

Now there is little to remind one of these good old days, as nearly all the old landmarks have become entirely obliterated, and if it were not for a handful of old-timers who persistently work at their diggings year after year the existence of gold placer deposits of the upper Columbia river would soon be forgotten.

It was many years after the first placer excitement died down that the attention of mining men turned to the possibilities of lode-mining, and a number of claims were staked at no great distance back from the Columbia. Silver-lead and copper deposits were discovered, demonstrating that there was a mineralized zone at a distance of from 6 to 10 miles back, while beyond this there still remains an immense area yet to be explored.

Transportation.—One often hears the question, "If ore is developed in this country, how can you get it out?" While admitting that transportation facilities are not all that could be desired, there are two features worthy of mention. One is that the Columbia river is easily navigable from the mouth of Downie creek to 19-Mile, at which latter point connection can be made with a wagon-road to Revelstoke, and the other is that the lateral valley of Downie creek affords a low-grade pass penetrating far into the heart of the Big Bend area, thus offering transportation possibilities for any properties located in the vast country surrounding this creek and its branches.

Topographical Features.—The area contains some very rugged and difficult country, typical of the northern section of the Selkirk mountain system. The creek-valleys and lower hillsides are heavily timbered with cedar, spruce, balsam, and hemlock, while ferns and devil's-club grow in almost tropical profusion in the low-lying swampy places. The valley of the Columbia between Revelstoke and Downie creek is narrow. The hill-slopes to the east are uniform and rise almost from the banks of the river, except in a few spots where there are low-lying bench lands of limited area. In such places farming has been attempted in the past, but owing to difficulties of marketing the produce these cultivated areas, with few exceptions, have been abandoned.

A panoramic view of the summits from near Downie creek presents a sea of high peaks and ridges dotted here and there with white patches of snow and ice, in contrast to which the occasional grass-covered slopes of the glacial basins stand out in pleasant relief.

Geology.—As the trail leads through evergreen forests for most of the way, only glimpses here and there could be obtained of the rock formations, and it is not until the summits are reached that an idea of the outstanding geological features can be formed.

The impressions gained were as follows: From Revelstoke to LaForme creek, the formation principally consists of granite cut by pegmatite dykes; in places there are large inclusions of schistose rocks. Beyond this, as far as Downie creek, greenish-grey schists, having a north-west strike, with thinly bedded bands of crystalline limestone, predominate. This series has been invaded by both basic and aplitic dykes, the latter variety predominating, originating from the near-by batholith.

A number of claims staked many years ago in this schist-belt have had varying amounts of development-work done on them, but there are no records of any ore having been shipped and they are all now lying dormant. They include the *Mastodon* group, a silver-lead-zinc property near the head of LaForme creek; the *J.L.* group, on Carnes creek, a silver-lead-zinc property;

the *Roseberry* on Carnes creek, a gold property; the *Standard* group at the head of 5-Mile creek, a copper property; the *Montgomery* group on Downie creek, a copper property; and others.

Type of Deposits.—The ore-deposits in this schist-belt occur as replacement deposits along sheared zones and represent mineralized bands conforming to the dip and strike of the formation.

From experience in the field and from personal observations, the writer would consider that this belt offers better possibilities for gold and copper deposits than it does for silver lead. The largest silver-lead deposits in the West Kootenay are invariably associated with carbonaceous slates and limestones. In the Big Bend district the northerly extension of these rocks probably continues farther back from the river, but the country, being an extremely difficult one to prospect, has been neglected.

Montgomery Group.

This property, comprising a group of ten claims, is situated at the head of Canyon creek, which flows into Downie creek at a point 9 miles from its confluence with the Columbia river. In a direct line it is about 2 miles or less from Downie creek and about 4 miles by trail. The distance from Revelstoke is about 55 miles.

Topography.—The claims are located on a steep and narrow ridge of Downie mountain, on either side of which deep canyons have been cut by glacier-fed creeks. The country is rugged in the extreme; the steep slopes are scored and laid bare in many places by the action of snowslides. The elevation at the point where the mine trail leaves Downie Creek valley is 2,000 feet, and that at the end of this trail, where most of the work has been done, is 5,500 feet.

Geology.—The geology of this area is particularly interesting, for erosion has revealed an almost vertical section of formation for nearly 3,000 feet. From this it can be seen that the base of Downie mountain is composed of a large mass of granite, overlying which there is a series of highly metamorphosed rocks consisting of dark schists. Near the summit the rocks are of lighter colour, probably consisting of greenish-grey schists; in these there are several bands of limestone which form a distinct geological horizon. Near the granite-contact the metamorphism is more pronounced and the formation, which is contorted and foliated, has been invaded by numerous aplitic dykes. The general tendency of these has been to conform with the schistosity of the rocks, and as they form narrow bands of highly siliceous material, they might easily be mistaken by the inexperienced prospector for quartzite or even quartz veins. The schists and limestone represent a thickness of from 300 to 500 feet, striking to the north-west and dipping to the north-east with marked regularity.

Ore Occurrences.—The ore occurs in mineralized bands, conforming to the dip and strike of the formation, possibly along the contact of a thin band of limestone and schist; the former having been replaced by mineral-bearing solutions. Although these bands exhibit continuity, the ore occurs in lenses where structural conditions have been favourable for deposition.

There are said to be five veins exposed between Canyon creek and the summit of the ridge some 3,000 feet above, along which there are exceptionally strong showings in bluffs and precipitous canyons swept by snowslides. Unfortunately weather conditions precluded an examination being made at higher altitudes. Such exposures only serve to show the extent and character of the mineralization, but as individual deposits they might as well be non-existent, owing to adverse climatic conditions and inaccessibility.

Workings.—The principal working is situated at the end of the trail at an elevation of about 5,500 feet. It consists of an open-cut about 100 feet long, exposing a width of 10 feet of ore along the dip of the vein, which strikes N. 55° W. and dips at an angle of 25° to the north-east.

The whole face is heavily stained with iron oxide. Upon breaking off samples at random, visual inspection showed that the bulk of the vein-matter consisted of massive pyrrhotite slightly discoloured in patches with chalcopyrite. In a few places where transverse shearing had produced fractures there has been a concentration of chalcopyrite associated with a quartz gangue. A sample of chippings taken at random along the face of the open-cut gave the following returns: Gold, trace; silver, 0.6 oz.; copper, 4 per cent. The bulk of the ore is so massive and hard that it is practically impossible to break off a representative sample with a moyle and prospecting-pick; hence the only satisfactory method would be to blast off large samples and quarter them down.

Another working about 300 feet higher up the hill on the same vein shows a width of about 15 feet for a length of 50 feet. Here the ore is more broken and mixed with country-rock. In

the opinion of the writer, a representative sample would not carry more than 2 per cent. copper. The above work was done by the Granby Consolidated Mining and Smelting Company in 1917.

In conclusion, the surface showings are strong, the copper tenor of the ore is low, and whether a sufficient tonnage exists to constitute an ore-body of commercial importance yet remains to be proved by further work.

On the return journey from the above-mentioned property, an early start was made from McIntosh's cabin for Keystone mountain by taking the old trail which leaves the Big Bend trail at a point 40 miles from Revelstoke. The summit was reached after four hours' steady climbing and camp was made for the night in an old dilapidated cabin on the *Carbonate Chief* claim. On this property a good deal of prospecting-work had been done many years ago in an endeavour to exploit a few quartz-croppings, but nothing of importance had been disclosed. A sample of some of the most likely-looking quartz ran: Gold, trace; silver, 1.4 oz. The elevation at the cabin is 6,400 feet.

The next morning the weather was very cold and uncertain, so instead of examining the various claims on the northerly end of Keystone mountain, as was intended, it was decided to make for the *Standard* mine before a possible snowfall might prevent the trip. After travelling from early morning over the beautiful park-like country of the summits, the *Standard* was reached shortly before dark. The rounded summits and ridges, together with the broken and crushed schists underlying the surface soil, give ample evidence that this picturesque summit was at one time the resting-place of an immense glacier.

Standard Group.

This property, comprising ten Crown-granted claims and eight fractions, is located at a distance of about 15 miles by trail from the Columbia river and thence about 35 miles to Revelstoke. The camp buildings, situated at an elevation of 6,500 feet, consist of two cabins. The accommodation at one time was sufficient for ten or twelve men, but the buildings are now in a state of dilapidation. The camp-site is nearly a mile from the workings. The property was extensively developed some fifteen or twenty years ago, since which time it has been abandoned, and in 1917 was sold for taxes to R. Abernethy, of Marpole, B.C., who is the present owner.

The principal workings are situated on the easterly slope of a narrow ridge which forms the divide between two small branches of the South fork of Downie creek. On the westerly side of this ridge the strata, dipping at an angle of 25° to the north-east and striking to the north-west, are freely exposed in a series of rugged bluffs. On the easterly side of the ridge glacial action has scooped out an extensive basin-like depression, leaving a fairly gradual slope to a point some 500 feet below the summit. Along and near the summit of this ridge there are indications of mineralization and a number of pits and open-cuts show that early prospecting had been quite extensive.

The formation consists principally of greenish-grey schists, with occasional thin beds of highly metamorphosed limestone. In the vicinity of the workings the following order of stratification was noted: Greenish-grey schists, a thin bed of limestone overlying a black schist, which latter had been subjected to much movement, as evidenced by numerous slickensided surfaces. The ore, consisting principally of chalcopyrite, was evidently deposited along the contact of these black schists with the limestone. The limestone has been eroded away and the workings are in the black schists, in which the ore was found to occur in lenses within the foliations of the schist. It also probably replaced the limestone along the contact.

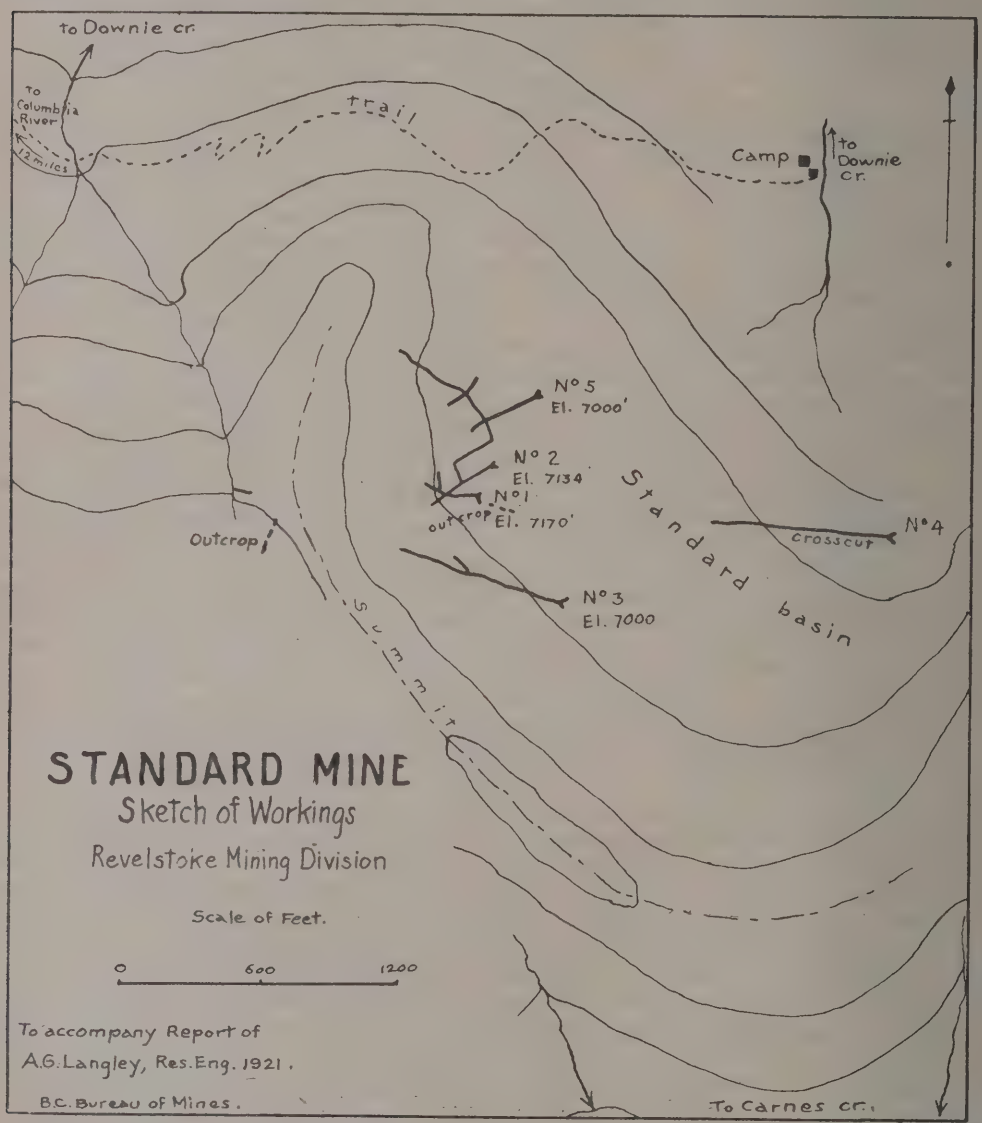
The ore-zone as developed constitutes a mineralized band conforming to the dip and strike of the formation and has been approached by three crosscut tunnels, which develop the vein to a vertical depth of 170 feet below the uppermost underground working. Unfortunately the various underground workings could not be examined, as they were either caved or full of ice and water.

A careful inspection of the dumps showed them to consist principally of crushed and slickensided black schists. No ore of any appreciable amount was noticed. According to a reliable assay plan in possession of the writer, the average values ran between 3 and 4 per cent. copper, with negligible values in gold and silver. Two other long crosscuts which had been driven were poorly located and did not develop ore.

It is roughly estimated by the amount of work done that the total expenditure on this property must have been at least $50,000 or $60,000. No doubt a lot of the money was thrown

away through lack of good judgment in planning the development-work. For further reference *see* the Minister of Mines' report for 1905.

One of the most interesting geological features of this area was the presence of a large mass of serpentine, which outcropped near the easterly side of the basin. Upon investigation it was found to contain numerous stringers of chrysotile asbestos of inferior grade, but which might improve in quality at depth.



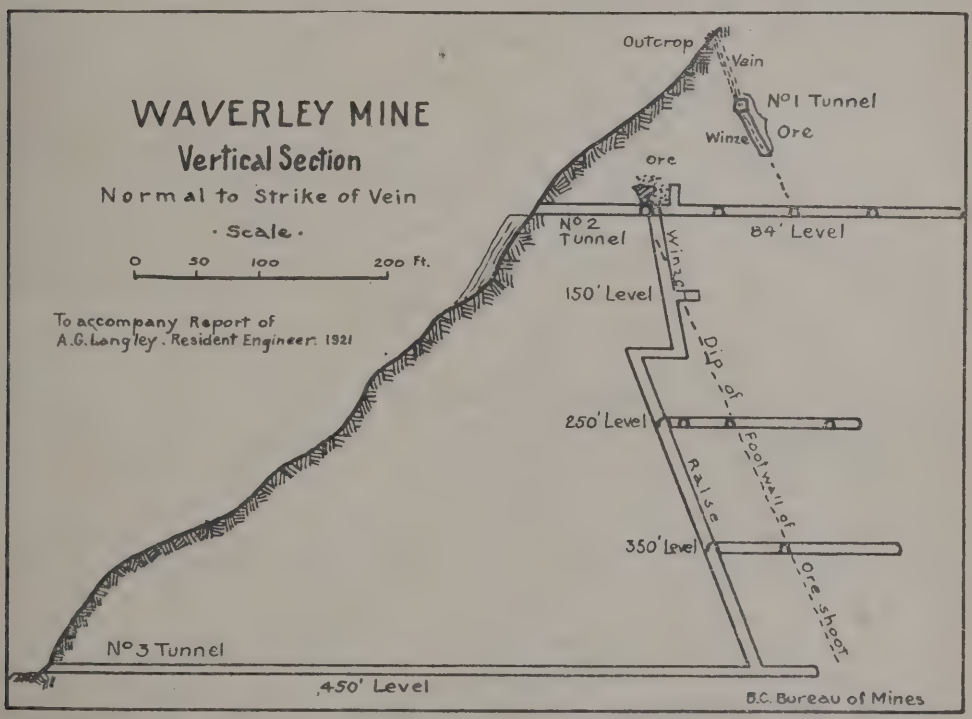
Waverly-Tangier Group.*

This property, situated at the head of the North fork of Downie creek, about 1½ miles below the summit flats separating that creek from the North fork of the Illecillewaet river, was acquired in 1918 by the Waverly Mines Company, of Spokane (F. M. Martin, president; G. H. Walters, secretary). Although the property is tributary to Downie creek, which flows into the Columbia river 46 miles above Revelstoke, the present route is by an old wagon-road about 28 miles in length (estimated), following the North fork of the Illecillewaet river from Albert Canyon, on the main line of the Canadian Pacific Railway 21 miles east of Revelstoke.

The old underground workings, which are quite extensive, date back to 1897 and 1898, when the property was being operated by the Gold Fields of British Columbia, an English company. The mines were closed down in 1899 and were idle until 1918, when the present company took them over. Since then a small crew varying from two to six men has been engaged on development during the summer months, putting in an occasional winter. Work done from 1918 to 1921 includes some 200 feet of tunnelling. The property comprises two separate groups, the *Waverly* and *Tangier*, of which the former is the most important.

The formation of the area consists of conformable beds of siliceous and argillaceous limestones, slates, quartzites, and schists, which have a north-west and south-east strike, dipping to the north-east. Both the *Waverly* and *Tangier* deposits occur in limestone.

Waverly.* This group consists of the *Waverly* and *Montague* (both Crown-granted), *Summit Lode*, *Mountain Goat*, *Montague Fraction*, and *Waverly Fraction* claims, which extend along and cover the steep mountain-side on the northern side of the creek from an elevation of 5,600 to 7,200 feet above sea-level. The vein, which conforms to the bedding of the country-rock, can be traced by open-cuts and stripping for over 2,000 feet along the outcrop, showing marked persistence in strike and dip (strike N. 40° W.; dip 60° to 65° to N. 50° E.). The width of the vein on the surface varies from 18 inches to 4 feet.



The ore is chiefly carbonates with small amounts of galena, the gangue consisting of altered country-rock, decomposed calcite, and quartz. The average silver content of the ore indicated by the few samples taken by the writer would appear to lie between 30 and 50 oz. to the ton, the lead content varying from a trace to 18 per cent. The gold values, generally speaking, appear to be negligible. Some of the ore shows copper-stains, indicating a small percentage of the metal. There is undoubtedly a very considerable tonnage of oxidized silver-lead ore available.

The underground workings, which in the aggregate will amount to about 3,000 lineal feet, mostly crosscut and develop one big ore-shoot. In the case of this shoot, which lies on the foot-wall side of the vein, replacement of the limestone walls has occurred on an extensive scale.

The examination was necessarily confined to the surface showings, No. 1 and No. 2 tunnels, as the workings below No. 2 tunnel were inaccessible owing to a cave near the portal of No. 3 tunnel and the bad condition of the timbers in the winze below No. 2 tunnel (the lower workings have since been made accessible). Practically all the development was done on the *Waverly* and *Montague* claims, principally on the former.

Commencing at the surface and proceeding downwards, the workings are briefly as follows:—

On the *Montague* claim, at an elevation of about 6,200 feet, a short crosscut encountered the vein at a distance of 20 feet and a winze was sunk 17 feet on carbonates containing streaks of galena. A sample across 4 feet near the bottom of the winze gave: Gold, 0.04 oz.; silver, 8 oz.; lead, 11 per cent. About 350 feet south-easterly along the outcrop a sample across 18 inches in a shallow cut gave: Gold, 0.02 oz.; silver, 14.4 oz.; lead, 14.9 per cent.

On the *Waverly* claim, about 750 feet south-easterly from the above crosscut and at about the same elevation, No. 1 tunnel was driven 90 feet on the vein just below its apex. In this tunnel the width of the vein varies from 14 inches to 2 feet. Near the portal of the tunnel a winze was sunk on the vein to a depth of 45 feet, the lower portion of which was caved and inaccessible. A sample across 2 feet at the top of the winze gave: Gold, 0.06 oz.; silver, 39.02 oz.; lead, 17 per cent.

About 300 feet south-easterly from and 84 feet vertically below No. 1 tunnel, No. 2 tunnel is a crosscut 330 feet in length. At 85 feet in from the portal the foot-wall of the ore-body was reached and drifted on for 85 feet north-westerly and 50 feet south-easterly. The 85-foot drift breaks through to the surface. Above the intersection of the crosscut and the two drifts a small stope was started. A sample across a width of 10 feet in the stope gave: Gold, 0.24 oz.; silver, 77.2 oz.; lead, 18 per cent.

The crosscut, passing through the ore-body, was then continued 245 feet farther. As the ore passes by insensible gradations into barren limestone, the width of what may constitute "ore" can only be determined by extensive sampling, having in view the grade of material which can be economically milled. The total width of the mineralized zone cut by the main tunnel is approximately 66 feet, including a horse of barren limestone of undetermined width, but which for sampling purposes was assumed to be 16 feet wide. The mineralization is strongest on the foot-wall side of the zone, as shown by the above-mentioned sample taken in the stope.

Samples along the crosscut gave as follows: Across 34 feet, including the good ore on the foot-wall side: Gold, 0.02 oz.; silver, 16 oz.; lead, 2.5 per cent. The 16-foot limestone horse was then omitted and a sample across 16 feet on the hanging-wall side of the zone gave: Gold, trace; silver, 2.4 oz.; lead, 0.2 per cent. Little importance can be attached to these results, however, mill tests being required to give reliable information on the values to be expected.

The hanging-wall of the ore-zone, which is marked by a seam of calcite, was drifted on south-easterly for a distance of about 70 feet. The hanging-wall seam was not drifted on in the opposite direction, but a little farther along the crosscut a semicircular tunnel driven north-westerly is in country-rock for the most part, but breaks into the hanging-wall of the ore-zone near the face. As a short crosscut tunnel had been run off the drift at this point, it was possible to get a sample across a 16-foot section, which gave: Gold, trace; silver, 2.8 oz.; lead, 1 per cent.

Farther along the main crosscut another tunnel, driven 60 feet north-westerly along a seam of calcite, is in country-rock. Several short tunnels and a 26-foot raise off the main crosscut in the ore-zone show strong mineralization, a grab sample from several hundred tons of material stored in these places giving: Gold, 0.14 oz.; silver, 36.8 oz.; lead, 15.5 per cent.

On the first south-easterly drift above mentioned, which follows the foot-wall of the ore-body, a winze was sunk 110 feet, at which point an offset was made to connect with a raise 260 feet up from No. 3 tunnel.

The vertical depth between No. 2 and No. 3 tunnels is 350 feet, and three intermediate levels have been turned off from the big winze and raise, named the 150-foot, 250-foot, and 350-foot levels, which means that they are respectively that distance vertically below No. 1 tunnel. As, for reasons stated above, all the workings below No. 2 tunnel were inaccessible, the information relating to them has been taken from the old company's maps and records, which show that the ore-body was encountered and developed on all three intermediate levels, with good results as to width, length, and values.

No. 3 tunnel, 450 feet vertically below No. 1 tunnel, is a crosscut about 635 feet long (by scale), which apparently was discontinued a short distance from the expected intersection with the vein.

Tangier.* This group consists of the *Tangier* (Crown-granted), *Tiger*, *Silver Tip*, and *Black Bear* claims, which are located along the bank of the creek immediately below and south of the *Waverly* group, at an elevation of 4,800 feet (collar of shaft). Outcropping along the creek-bed there is a well-defined fissure-vein with a similar strike and dip to the *Waverly* vein, also conforming to the bedding of the country-rock, which can be traced by open-cuts and stripping for over 1,000 feet along the surface. This vein, which varies in width from 1½ to 5 feet, contains in places small bunches and stringers of galena and zinc-blende, with streaks of grey-copper. The gangue is quartz, calcite, and limestone. The shaft was sunk on an ore-shoot lying on the foot-wall side of the vein at some little distance from it. The vein itself does not seem to have been reached by the underground workings.

The development on the *Tangier* consists of 110 feet of double-compartment shaft, 829 feet of tunnelling, and a 100-foot winze. The shaft is situated on the *Tangier* claim a short distance south-easterly from and a little above the creek. The ore developed in the workings is of the replacement type, probably connected with the above-described vein.

The ore piled on the dump, amounting to several hundred tons, consists of galena, zinc-blende, pyrite, with small amounts of grey-copper in a gangue of quartz, calcite, and limestone. A grab sample from this large pile of ore gave: Gold, 0.06 oz.; silver, 16 oz.; lead, 8.5 per cent.; zinc, 5 per cent. A picked specimen of pyrite and quartz from the same pile gave: Gold, 5.6 oz.; silver, 8.2 oz.

The *Tangier* ore differs from that of the *Waverly*, in that there is generally less evidence of oxidation, and the *Tangier* ore contains appreciable gold values in association with pyrite. There is a separate pile (roughly estimated at 200 tons) near the shaft-dump of black decomposed ore which apparently came from the winze below the 100-foot level. A grab sample of this material gave: Gold, 0.24 oz.; silver, 21.2 oz.; lead, 8.5 per cent.; zinc, 15 per cent. The workings are briefly as follows: A vertical double-compartment shaft was sunk for a depth of 100 feet. A small surface tunnel north of the shaft was run in and encountered ore, connection being made with the shaft at the 20-foot level. Records show a small stope was started from this 20-foot level and continued to the surface, the ore being stored in a pile below the shaft-dump. At the time of the examination the shaft connection was full of ice and the portal of the adit was caved, so this level could not be inspected.

At the 100-foot level drifts were run north-westerly and south-easterly, encountering two mineralized zones, one on each side of the shaft. The ore-shoot in the south-east drift, having the strongest showing, was prospected by a 100-foot vertical winze. At the time of the examination this was partly filled with water. A grab sample from a small pile of black decomposed material around the collar of the winze gave: Gold, 0.16 oz.; silver, 35.6 oz.; lead, 11 per cent.; zinc, 3 per cent.

This ore-shoot in the south-east drift on the 100-foot level has an apparent length of 40 feet and a width of from 4 to 6 feet. A sample across 6 feet in the face of the drift gave: Gold, 0.1 oz.; silver, 3.7 oz.; lead, trace; zinc, 1 per cent.

The ore-shoot in the north-westerly drift shows little mineralization, a sample across 4 feet giving: Gold, trace; silver, 0.8 oz.; lead, *nil;* zinc, 2.5 per cent.

In addition to the above workings, several hundred feet of tunnels have been run in barren limestone, in which there are numerous open fissures and calcite-seams.

At present transportation to the *Waverly-Tangier* property offers a serious problem, as the old wagon-road, long disused, is in such a bad state that practically a new road would have to be constructed throughout. The problem of deciding on a route to the property will require very careful consideration.

Asbestos.—Inquiries made last year for asbestos by Japanese representatives aroused interest among the prospectors and samples were brought in from far and wide. With the exception of some chrysotile, they were all of the amphibole variety, which has no commercial value.

The chrysotile asbestos was discovered many years ago by R. Armstrong on the westerly slope of Mount Sproat, near Arrowhead. It did not, however, attract much attention, for it was thought to be of inferior grade and very little prospecting-work was attempted.

This year J. T. Lauthers joined forces with R. Armstrong, and further prospecting was done, with encouraging results, although the work accomplished was very limited owing to lack of capital. The following is a brief description of the property:—

Asbestos Group. This group comprises four claims and is situated at a distance of 3 miles from the town of Arrowhead, in the Lardeau Mining Division. It is owned by J. T. Lauthers, of Revelstoke, and R. Armstrong, of Sidmouth. In a direct line the claims are within 2 miles of the branch line of the Canadian Pacific Railway running between Revelstoke and Arrowhead. The elevation of the deposit is 4,200 feet above sea-level, or 2,800 feet above the Canadian Pacific Railway track.

At this altitude there is a belt of serpentine rocks, which are described by M. F. Bancroft, of the Geological Survey, as follows: "The serpentine has been formed through the alteration of a basic igneous rock, intruded as a dyke or stock into a sedimentary series of quartzites, crystalline limestones, and metargillites. The serpentine-belt, crossing the hillside, attains a width of about 1,000 feet and forms bluffs for half a mile or more paralleling the Columbia river."

The surface of the hillside is mostly covered with overburden and has only been prospected by a few pits and open-cuts over a small area, but wherever work has been done it has exposed asbestos-bearing serpentine. The asbestos occurs filling small veinlets in the serpentine as cross-fibre, with widths varying from ¼ to ¾ inches. It also occurs as "slip-fibre," having a length of 3 inches.

The short-fibre asbestos is harsh and brittle and lacks the tensile strength necessary for spinning purposes; it should, however, make a good filler for textiles. In the opinion of Dr. R. A. A. Johnston, of the Geological Survey, it is as good if not superior to much of the South African stock which is coming on to the market in apparently increasing amounts to be used as a filler. The best grade so far found is pronounced to be worth possibly about $400 per ton.

As already stated, very little work has been done; the results obtained so far are encouraging, but more capital will have to be expended on further development in order to determine the extent and prevailing quality of the asbestos.

Wigwam Group.* An examination of this property was made following an application for assistance towards the cost of making repairs to the trail leading to it.

The group, consisting of the *Wigwam No. 1*, *No. 2*, *No. 3*, and *No. 4* claims, owned by R. Armstrong and J. Kirkpatrick, of Arrowhead, is situated on the northern side of Isaac creek, about 7 miles by trail and road from Wigwam, on the Canadian Pacific Railway south of Revelstoke.

The old workings are about 1,000 feet (estimated) above the creek. The ore is low-grade lead-zinc, occurring as a replacement deposit in limestone. The associated minerals are galena, zinc-blende, pyrite, and pyrrhotite in a limestone gangue.

The ledge, which dips flatly into the mountain in conformation with the enclosing strata, appears to be from 50 to 60 feet in width. Outcroppings of ore can be found at intervals for several thousand feet along the strike on the surface. Between the outcroppings of ore the soil is discoloured and reddish from the oxidation of the sulphides.

The old workings consist of some open-cuts across the width of the ledge. Grab samples of broken ore in three of these open-cuts assayed as follows: Gold, *nil*, trace, trace; silver, *nil*, trace, trace; lead, trace, 11 per cent., 8 per cent.; zinc, 3 per cent., 11 per cent., 5 per cent. These results were disappointing, as former assays are said to have given as high as 10 oz. of silver to the ton.

Although the deposit has hardly been scratched as yet, it is obviously very extensive. If a demand for this type of ore should develop, and if a tonange of ore sufficient to warrant the erection of a concentrator should be blocked out, a good site for a concentrator could be obtained on the creek below the claims. Timber for mining purposes is plentiful.

TROUT LAKE MINING DIVISION.

The following is a brief summary of the activities in this Division:—

At the *True Fissure* a crew of about five men will be employed during the winter at extending the lower or C tunnel some 300 or 400 feet.

Recent work by Andy Craig and Alex. McLean at the *Noble Five*, situated at the head of Brown creek, uncovered a nice showing of ore 18 inches wide in the bottom of the upper tunnel. A sample taken across 2 feet of vein-matter ran: Gold, 0.40 oz.; silver, 75.6 oz.; lead, 16 per cent.; zinc, 24 per cent.

M. Leahy, who has been in charge of the development-work at the *Crescent* and *Horn Lead* properties, reports that satisfactory results have been obtained.

S. Faulk and S. White, who have been leasing at the *Nettie L.* shipped 18 tons of silver-lead ore to Trail.

At the *Silver Cup* S. Cavanaugh was working under a lease during the season. A small shoot of ore was encountered not far from the portal of the 700-foot level, from which he expected to make a shipment of 15 or 20 tons. A grab sample from a small pile of sorted ore ran as follows: Gold, 0.16 oz.; silver, 146.4 oz. to the ton; lead, 54 per cent.; zinc, 1.6 per cent. The property was visited by the writer, but in view of the condition of the workings, the limited amount of time at his disposal, and the lack of facilities in the nature of mine-maps and records of shipments made, no report will be attempted on this occasion; more especially as the property has already been reported on, which reports may be seen in the Annual Reports of the Minister of Mines for 1914, 1903, and 1904. From these reports it will be seen that the mill erected to treat the ore was unsuitable. In this connection it must be remembered that it was designed and installed before the oil-flotation process had been successfully introduced as an economical method for the separation and recovery of metals.

J. W. Livingston continued development-work at the *Gold Bug*, on the South fork of Lardeau creek, and had a small tonnage of clean galena ready for shipment.

At the *Parsboro*, which is situated across the creek from the last-mentioned property, a tunnel 180 feet in length has been driven to gain depth on a showing of ore in an old shaft. Work was discontinued before the tunnel had gained its objective.

Mrs. Jowett, as usual, spent part of the summer prospecting at the *Foggy Day* and at other properties in which she is interested along the summit of Silver Cup mountain. At this property good gold values are obtainable; for instance, a sample of earthy oxidized material from an open-cut ran: Gold, 7.54 oz.; silver, 43.2 oz. to the ton.

J. H. Martin and associates purchased the *I.X.L.* and *J.I.C.* claims on Triune creek from C. T. Porter. Four or five men were employed during the season. The work consisted of driving a 100-foot tunnel, building a new cabin, and improving the trail. It is reported that there is a good showing of galena in the tunnel and that work will be resumed next spring.

Dan Savoy, an old-time placer-miner of the Trout Lake district, after some twenty-five years spent in the Klondike and Alaska, has returned to make tests of the gravels along Lardeau creek from the lake, with a view to forming a company to carry on placer-mining on a larger scale.

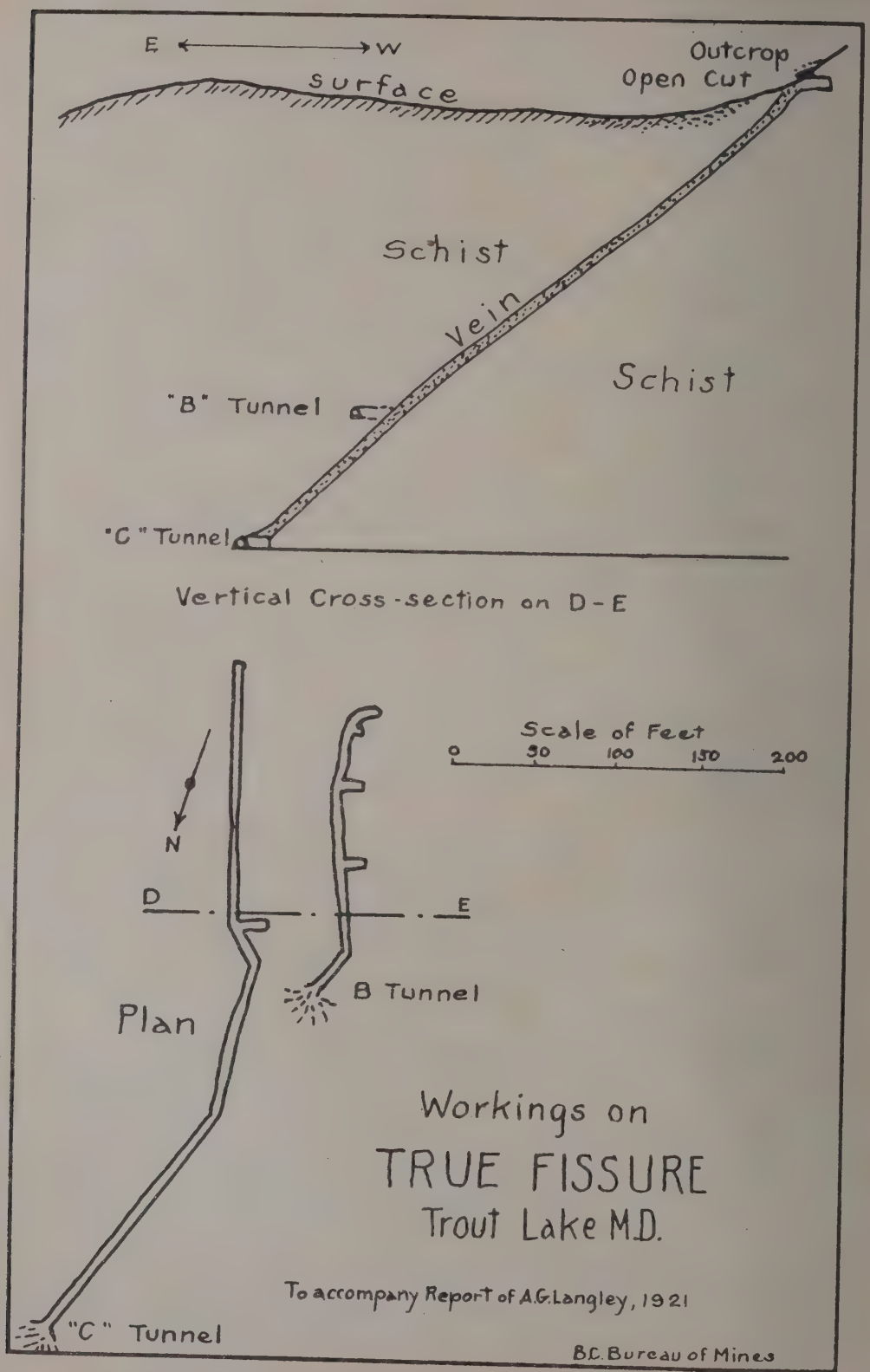
True Fissure.

This group, comprising eight Crown-granted claims and fractions, is owned by the True Fissure Mining and Milling Company, of Cincinnati, Ohio, of which Theo. W. Mitchell is secretary. The property is situated on the Great Northern mountain at a distance of about 3 miles from Ferguson, from where a good trail leads to the camp. The elevation of the workings ranges from 5,500 to 5,700 feet above sea-level. The topographical features in the vicinity of the workings afford a good camp-site, and it is a property that can be worked the year round without any danger or inconvenience from snowslides, which often accompanies operations at these altitudes.

The prospectors who discovered this property must have at first thought that they had one of the greatest bonanzas in the country, for erosion has cleaned off the hanging-wall of the vein, leaving highly mineralized material as a coating on the foot-wall, thus exposing a large area devoid of vegetation or any other covering. The vein is a strong quartz-filled fissure dipping at about 40° to the east and striking N. 20° W., it conforms to the stratification of the country-rock. The foot-wall is composed of light-coloured highly siliceous schist.

It was difficult to determine the exact nature of the hanging-wall on account of its highly altered state, but the impression was gained that it consisted of a siliceous lime-schist. In any event it would appear that the vein occupies a sheared zone which has been produced by movement along the bedding-planes. On the hillside above the large surface exposure no evidence of its continuation could be seen.

Numerous open-cuts and small workings have traced the continuity of mineralization for a horizontal distance of 1,500 feet or more, but the main concentration of ore seemed to have been


E
W
surface
Outcrop
Open Cut
Schist
Vein
Schist
"B" Tunnel
"C" Tunnel
Vertical Cross-section on D-E
Scale of Feet
0 50 100 150 200
N
D
E
B Tunnel
Plan
Workings on
TRUE FISSURE
Trout Lake M.D.
To accompany Report of A.G.Langley, 1921
"C" Tunnel
B.C. Bureau of Mines

centralized around the large surface exposure and at the *Blue Bell* workings, which lie some 800 feet to the north.

The predominant ore exposed at and in the vicinity of the outcrop, and of which there is a considerable tonnage, was a fine-grained mixture of galena, zinc-blende, and iron pyrites. A sample of this ran: Gold, 0.06 oz.; silver, 18.5 oz.; lead, 27.2 per cent.; zinc, 30.7 per cent.

The principal underground workings consist of two tunnels driven along the hanging-wall of the vein. The upper or B tunnel gains a vertical depth of about 200 feet below the outcrop and has a total length of about 190 feet. From this main tunnel the vein has been exploited by short crosscuts at intervals of 50 feet. Its width varies from 3 to 9 feet. The mineralization, consisting of galena, zinc-blende, and iron pyrites associated with a quartz gangue, is irregular and inclined to be "bunchy," but it is satisfactory to note that both the width of the vein and concentration of ore-minerals improve as the end of the tunnel is approached. A sample moiled across a 44-inch width of the vein near the face gave the following results: Gold, 0.07 oz.; silver, 13.8 oz.; lead, 12.4 per cent.; zinc, 21.2 per cent.

The lower or C tunnel, driven from the bottom of the basin, gains an additional depth of about 80 feet; this is the maximum depth obtainable without driving tunnels of great length, which the present stage of development does not justify. The total length of C tunnel is about 438 feet. The vein was encountered at a distance of about 200 feet from the portal; the direction was then changed and for its last 150 feet the tunnel runs parallel to the strike of the vein in the hanging-wall. No crosscutting to prove the vein had been done in this length; hence no ore of importance had been developed from this level. It is proposed to extend this tunnel 300 or 400 feet to develop the vein below strong surface exposures to the south-east of the eroded portion. A small crew of men is now engaged in this work.

The appended sketch, made from a hurried Brunton survey, is only intended to give an idea of the "lay-out" of the principal workings and is not accurate in detail.

The *Blue Bell* workings are located on the northerly extension of the vein, at a distance of about 800 feet from the large surface exposure. A crosscut tunnel driven in a westerly direction into the face of a small bluff struck the vein at 150 feet. Here the vein shows a strong width of quartz, in which the pay-streak varies from a few inches to 3 feet in thickness. About 150 feet of drifting has been done, above which the ore has been stoped.

In order to gain depth a crosscut was started at the bottom of the bluff, 132 feet lower down. This has been driven for 150 feet. From near its portal another tunnel has been driven for a distance of 210 feet in a north-westerly direction, following a small stringer which was thought to be the vein. Although time did not allow of a survey being made, in the writer's opinion it was doubtful if this latter tunnel was on the vein. A further endeavour to develop the vein at depth should be made, as a considerable tonnage of very nice silver-lead ore was extracted from the upper level.

The shipments made by the company during 1908 and 1909 make up a total of between 200 and 300 tons, of which the average would run about as follows: Gold, 0.10 oz.; silver, 74 oz.; lead, 24 per cent.; zinc, 10 per cent. The future of this property as a large producer would seemingly depend upon the results obtained by the continuation of the C tunnel.

Arrow Lake Mining Division.

In this Division the *Millie Mack* mine near Burton was operated by the owner, H. E. Forster. Three men were employed. About 12 tons of high-grade silver-lead ore was extracted and shipped.

It is reported that the *Mountain Chief* mine at Renata has reverted to the original owners, who have commenced work on the property.

NORTH-EAST KOOTENAY DISTRICT.

GOLDEN MINING DIVISION.

REPORT BY G. E. SANBORN, GOLD COMMISSIONER.

I have the honour to submit herewith the annual report on the Golden Mining Division of the North-east Kootenay District.

I regret that so little has been done in mining in this district during the year 1921. No shipments of ore have been made.

Some considerable interest in mining has been evidenced in different parts of the district. Development-work has been done on mica claims in the Kinbasket Lake region, and an interest in the *Rustler* claim at End creek, in the Big Bend, has been acquired by Calgary people, who propose to develop it.

Information is at hand that after investigation an English syndicate has secured a group of claims in the International basin and work on them will be proceeded with as soon as weather conditions will allow.

Interest is also manifested in placer-mining on Canyon creek. As it was late in the season when any claims were staked, not much was done, but it is expected that when the ice moves in the spring work will be resumed.

OFFICE STATISTICS—GOLDEN MINING DIVISION.

Free miners' certificates (ordinary)	91
Free miners' certificates (special)	1
Mineral claims recorded	19
Placer claims recorded	1
Certificates of work issued	11
Conveyances (mineral)	3

WINDERMERE MINING DIVISION.

REPORT BY E. M. SANDILANDS, MINING RECORDER.

I have the honour to submit my report for the Windermere Mining Division for the year ending December 31st, 1921.

I regret to say that mining in this Division, as well as, I presume, all over the Province, has been of a very desultory character during the past year, partly due to the low prices of metals and also to the excessive and unsatisfactory terms of freight and treatment.

Furthermore, capital was very shy in investing in mining under the above conditions; consequently very little prospecting was done, there being no incentive to discover anything new. However, towards the end of the year things were looking a little better and the prospects for 1922 brighter. In spite of the above, the mining receipts have only fallen off about 10 per cent. in this office, this being due to money paid in in lieu of assessment-work.

Paradise.—This property worked a small force of men during the past summer, mostly doing development-work. Towards fall more men were put on and shipments resumed. The low prices of metals and high freight and treatment charges caused this mine to hold the ore until better conditions prevailed.

Bunyan.—This property is owned by the Bunyan Barium Syndicate and is situated on the mountain to the rear of Invermere. The property during the summer worked an average of eight men, doing mostly development-work, and at the end of August last was closed. This company ran 300 feet of tunnel and 50 feet of raise. The ore goes high in barium, picked samples going as high as 96 per cent. The company is contemplating putting up a reduction plant for the treatment of this ore.

Maple Leaf and Silver King.—These properties are owned by the Toby Creek Mining Company and are situated on Jumbo fork, a tributary of Toby creek. During the summer a small amount of work was done and several tons of ore sacked, but owing to the low prices of metals and difficulties of getting the ore to the market the ore was not shipped. The work was under the management of W. L. Smith.

Isaac and Isaac No. 1.—Some work of a prospecting nature was done on this promising property, but no ore was shipped. W. D. McMillan, of Seattle, is now the owner, having recently completed the purchase from H. E. Forster.

Vermilion and Margaret.—These properties are owned and operated by the Zenith Mines, Limited, of Calgary. Several tons of ochre ore has been shipped from these claims. The ore is hauled over the Banff road to Castle, a siding on the Canadian Pacific Railway. I have no record of where it is shipped.

The *Outlook*, *Evening Star*, *White Star*, and *Silver Spray* groups have all had their annual assessment-work done, and on some more than the regular work was done. The work performed, I hear, gave encouraging results. These groups are all on Toby creek and tributaries.

Office Statistics—Windermere Mining Division.

Free miners' certificates issued (ordinary)	64
Free miners' certificates issued (special)	1
Claims recorded (quartz)	35
Certificates of work issued	75
Certificates of improvements	2
Bills of sale, agreements, etc.	22

SOUTH-EAST KOOTENAY DISTRICT.

FORT STEELE MINING DIVISION.

REPORT BY N. A. WALLINGER, GOLD COMMISSIONER.

I have the honour to submit a report on the progress of mining in the Fort Steele Mining Division for the year 1921.

In reviewing the mining conditions since my last report, a steady progress and improvement can be reported; more prospecting and development has been attempted, and in quartz-mining, particulalry with regard to free-milling ores, a much stronger interest is being shown.

Placer-mining has been general over all the gold-bearing creeks, the prospects in most of them being good, and all of them will be in full blast next spring. Returns from Wildhorse are increasing, but the camps on Weaver and Perry creeks and the Moyie river are only in prospecting stage.

The work of the Consolidated Mining and Smelting Company at the *Sullivan* is rapidly opening out, and a commencement on the site of the concentrator between Marysville and Kimberley has been made; a site for a power plant has also been selected and water applied for from Skookumchuck creek; this when completed will ensure an independent supply of electrical energy, the power-line being perhaps 15 miles long. The shipments from the *Sullivan* mine in 1921 are: Lead ore, 33 tons; zinc ore, 297,210 tons; iron pyrites, 1,121 tons. Improvements made during the year include five new cottages and one large bunk-house, the burnt building having been rebuilt.

At last it seems as though some attempt is to be made to ascertain the value of the free-milling gold-quartz properties on Perry creek. It is understood that a tunnel will be run this winter to tap the big vein on the Cranbrook Homestake Company's property at a 400-foot depth, and a 10-stamp mill complete with recovery-plates and cyanide-vats installed, should the results prove satisfactory. A deal on another group is pending; these two represent the typical ores on Perry creek, and the success of either will be a matter of much importance to the district.

On the West fork of Hellroaring creek a little development is being pushed on an old property, and on the successful results of this work a great deal depends, as a systematic plan of development would be inaugurated at once.

Work has been continued on the *Victor* group during the season, but no results have been ascertained; the camp has been closed down for the winter, but is to be reopened in the spring.

The Federal Mining and Smelting Company, which had taken a bond on the *Stemwinder* group, situated on Mark creek, between the *Sullivan* and the *North Star* groups, has stopped work, the results being disappointing; this group is the property of Mann & MacKenzie and has a large body of pyrrhotite, carrying galena and zinc-blende. A bond on a property on Copper creek, the *Brenda* group, has been completed and work is proceeding; the camp has been established and a shaft is now being sunk; the ore is a grey-copper in a quartz gangue, carrying good values in gold and silver.

There have been two locations of graphite made in widely separated districts, Matthew creek and Wildhorse creek, but until more work is done nothing can be said as to their value.

No further work on the *Rob Roy* group on Skookumchuck has been done where the native copper was struck, but it is understood that a new company is to carry on development to a greater depth.

OFFICE STATISTICS—FORT STEELE MINING DIVISION.

Mineral claims recorded	168
Certificates of work (Form E)	235
Certificates of improvements	15
Bills of sale, etc.	111
Mining leases issued	3
Free miners' certificates (ordinary)	226
Free miners' certificates (company)	4
Crown grants issued	49

Revenue.

Free miners' certificates	$ 1,456 00
General mining receipts	3,973 90
Tax on Crown-granted mineral claims	2,151 75
Tax on mines and minerals	21,356 46
Total	$28,938 11

NORTH-WEST KOOTENAY DISTRICT.

REVELSTOKE AND LARDEAU MINING DIVISIONS.

REPORT BY ARTHUR JOHNSON, GOLD COMMISSIONER.

I have the honour to submit herewith a report on the mining conditions within the Revelstoke and Lardeau Mining Divisions for the year ending December 31st, 1921.

REVELSTOKE MINING DIVISION.

ALBERT CANYON CAMP.

The *Lanark* mine was in operation with a crew of men doing development-work during the spring months, but since June all work ceased and this property is now idle. It is the intention, however, of the management, we are informed, to commence with a full crew of men early next spring to continue development. No ore was shipped from this property during the year.

A crew of five men has been employed steadily during the year on the *Waverly-Tangier*. The men were chiefly engaged in clearing the old workings of the mine and development. Eight men were engaged for three or four months in clearing the wagon-road to this property.

The *Silver Creek* mines, situated on Silver creek, about 7 miles from Albert Canyon, were idle during the season, only assessment-work being undertaken.

BIG BEND DISTRICT.

Nothing of importance was undertaken in the way of the development of either the lode or placer properties in the district during the past year.

OFFICE STATISTICS—REVELSTOKE MINING DIVISION.

(John Lee, Mining Recorder.)

Free miners' certificates	110
Special free miners' certificates	1
Mineral claims recorded	35
Placer claims recorded	2
Certificates of work recorded	47
Payments in lieu of work	3
Placer leases granted	3
Agreements and transfers recorded	2
Permissions recorded	1

LARDEAU MINING DIVISION.

The Camborne camp was exceptionally quiet during the year. The *Multiplex* mines, of which O. T. Bibb is the manager, kept a small crew of men working on their properties doing development-work.

Charles Harvey and associates put in considerable development-work on their gold properties situate on Pool creek, a few miles above Camborne, with good results. It is the intention to proceed with work again when the season opens up next spring.

OFFICE STATISTICS—LARDEAU MINING DIVISION.

(Ernest Roberts, Mining Recorder.)

Free miners' certificates issued	25
Locations recorded	25
Certificates of work issued	54
Bills of sale recorded	10
Powers of attorney	2
Grouping notices	10

SLOCAN DISTRICT.

AINSWORTH MINING DIVISION.

Report by Ronald Hewat, Gold Commissioner.

I have the honour to submit herewith the annual report on mining operations in the Ainsworth Mining Division for the year ending December 31st, 1921.

Owing to the small demand for metals and the high costs of mining there has been very little mining development done in my district this year.

During the first three months of 1921 the *Bluebell* mine mined and treated 3,350 tons of ore from surface workings; but metal prices, the nature of the ore, semi-oxidized as it was, and high costs combined, rendered an operating margin impossible of attainment.

The Utica Mines, Limited, employed an average of four men, worked ninety-seven days, and shipped 45 tons of ore containing 5,402 oz. silver and 8 tons lead, but no new buildings or improvements were made, other than that of driving drifts and raises to facilitate the extraction of the ore.

On the *Kirby* group, owned by A. J. Curle *et al.*, and situated at Riondel, on Kootenay lake, a tunnel was driven from the lake-shore 290 feet in order to crosscut the lead, which the owners expect to pick up in another 100 feet. The surface exploration done during 1921 uncovered another well-defined vein conforming to the formation, apparently from 30 to 40 feet wide, about 80 feet farther up the hill than No. 1 lead, and in which there is a good showing of ore right at the surface, and in addition four other veins from 2 to 4 feet wide cutting the formation were also found, all of them showing pay-ore.

Office Statistics—Ainsworth Mining Division.

Free miners' certificates	157
Free miners' certificates (company)	5
Mineral claims located	63
Certificates of work recorded	401
Certificates of improvements	8
Bills of sale, agreements, etc.	35
Dredging leases recorded	8
Leases of reverted mineral claims	12

SLOCAN MINING DIVISION.

Report by Angus McInnes, Mining Recorder.

I have the honour to submit herewith my annual report on the Slocan Mining Division for the year ending December 31st, 1921.

I regret to have to say that there has been very little improvement in conditions over last year. We have not yet recovered from the effects of the disastrous strike of last year, together with the slump in the price of the metals we produce.

The only mines working this last year were the *Silversmith* at Sandon, the *Bosun* at New Denver, and the *McAllister* at Three Forks. The first-mentioned property has purchased the *Ivanhoe* mill and enlarged it to about double its former capacity; they have also built a tram-line from the mine to the mill and are now ready to operate on a large scale. The *Bosun* ships very high-grade ore in fairly large quantities. About thirty miners are employed.

The *McAllister* is only doing development-work for the winter. In the spring I understand they are going to erect a concentrator at Three Forks and run a tram up to the mine, about 4 miles. Besides the above, there are about thirty sets of leasers operating in the different mines around the camp; they are reported to be doing well.

Office Statistics—Slocan Mining Division.

Mineral claims recorded	20
Certificates of work recorded	96
Free miners' certificates recorded	120
Revenue collected	$2,683.50

SLOCAN CITY MINING DIVISION.

REPORT BY T. McNEISH, MINING RECORDER.

I have the honour to submit my report of mining conditions in the Slocan City Mining Division for the year 1921.

The effects of the strike are still being felt in the Slocan and very little has been done outside the usual assessment-work required. Very little new capital is coming in, but a few properties have been operating and have given very encouraging results.

I append herewith a memorandum of what properties have been working during the year.

The *Arlington* mine, which is under lease and bond to R. R. Hedley, is getting out some rich ore. There is an opening there for capital to put in a cyaniding plant, and there is sufficient power at hand to operate the mill.

The *Anna* group, owned by Kurt Zimmerman, is being worked by a small force of men which is getting out some rich ore in course of development. This property adjoins the *Ottawa* mine.

The *Little Tim* is owned by D. B. O'Neail and A. S. McAuley, who have been doing development-work and taking out some ore, and have a car nearly ready for shipment to the Trail smelter.

The *Ottawa* mine is under lease and bond to L. H. Biggar and associates, who have had their tube-mill in operation during the last year and have made a few shipments to Trail smelter. They have had considerable difficulties to overcome in the completion of their plant and in the securing of pebbles and lining, but now have a steel lining and are changing to steel balls instead of pebbles. What has been put through has shown a saving fulfilling all expectations of the lessees. Further development and ore-output will be done in the spring of 1922.

The *Black Prince* is under lease and bond to J. T. Tipping, who has made one shipment and has two more cars to come out in the spring.

The *Hampton* is under lease and bond to Wafer, Barber & Maurer, who have struck it rich and are taking out some high-grade ore, and with spring will be on the list of shippers. This mine was one of the early producers, but has been idle for a number of years. It is now, however, proving better than ever.

The *E. & R.* group, owned by Frank Benish and Joe Daniels, is being well developed. A new crosscut is being driven to tap the lead at depth, and it is believed that with the striking of the lead this will be a shipper, as some very high-grade ore has been found during development-work. The parent body has not yet been struck.

The *Tamarac*, under lease and bond to M. Cameron, has a fine showing of ore and will be shipping in the spring as soon as it is possible to get the ore out.

The *Lily B.*, owned by George Long and associates, is being worked by a small crew. It has several shoots of high-grade ore in sight and will be shipping in the spring.

The *Richmond* group, owned by F. Franz, who has been doing considerable development-work, has a large lead which, if it develops into a shoot, will be a large one. Considerable high-grade ore has been encountered in all the driving, but it has not been continuous.

The *Silver Crest* group has had considerable work done on it during the past year and will be developed on a larger scale in the spring.

OFFICE STATISTICS—SLOCAN CITY MINING DIVISION.

Free miners' certificates issued	66
Certificates of work recorded	96
Locations recorded	25
Transfers recorded	6
Notices to group	9
Free miners' certificates	34
Marriage licences	1
Total receipts of office	$967 30

TROUT LAKE MINING DIVISION.

Report by Oscar Jacobson, Mining Recorder.

I have the honour to submit herewith my report for the Trout Lake Mining Division for the year ending December 31st, 1921.

Owing to the general depression of business the mining industry did not come up to what was expected during the year; only two properties were worked (by leases) to get out ore—namely, the *Silver Cup* and the *Nettie L.*—and a small tonnage of ore was shipped from each of them.

Development-work was started early in the fall on the *True Fissure* property and will continue all winter. A very good strike of calcite was located on Lake creek and three claims located. The locators have great hopes of the find, as they expect a New York party to come in during next summer to look over the discovery.

The usual amount of assessment-work has been done during the year and new locations of claims have kept up with former years.

Placer-mining took a new lease of life during the summer; two dredging leases were granted by the Gold Commissioner and seven claims were recorded.

B. T. O'Grady, Assistant Engineer to A. G. Langley, of Revelstoke, came in during the later part of the fall to look over some properties, and will no doubt give his report on them.

Office Statistics—Trout Lake Mining Division.

Free miners' certificates issued (ordinary)	52
Free miners' certificates issued (company)	1
Mineral claims recorded	25
Placer claims recorded	7
Certificates of work recorded	144
Certificates of improvements recorded	6
Transfers recorded	11
Dredging leases granted	2

NELSON DISTRICT.

NELSON MINING DIVISION.

REPORT BY J. CARTMEL, GOLD COMMISSIONER.

I have the honour to submit herewith the annual report on the Nelson Mining Division for the year ending December 31st, 1921.

Owing entirely to prevailing economic conditions, the year has been an exceedingly poor one from the mining standpoint so far as this particular Division is concerned, and while I consider it unwarranted at the present time to indulge in any optimistic speculations regarding the immediate future, it is only fair to mention that, judging by a number of inquiries received from the United States of America and England by local mining men for particulars as to gold-producing properties, it would appear that a certain amount of optimism is justified.

A considerable amount of development-work has been done, but shipments to the smelter were almost negligible, amounting to little over 100 tons.

Nugget.—The Nugget Gold Mining Company continued work on its properties, situated on Sheep creek, and for several months kept the *Motherlode* mill running steadily, with good results, I understand.

Granite-Poorman.—This well-known mine, which is one of the oldest producers in the district, was bonded early in the year, the present operators confining themselves strictly to a development policy, and much interest is centered on the outcome of the venture.

Reno Group.—The Reno Gold Mines, Limited, has organized with a capital of $1,000,000 and is pursuing a vigorous policy of development with the properties on Fawn creek, a tributary of Sheep creek. Reports point to its becoming a large gold-producing mine.

Bayonne Group.—I learn that a Spokane syndicate has bonded this property and, in addition, several other promising groups of claims in the same locality, and it looks as if this section of the district is at last coming into its own. From all reports there are many hundreds of thousands of dollars' worth of ore in sight.

Spokane Group.—No shipments were made from this property during the year, although the owners are said to have ore to the value of some $100,000 ready. Lack of transportation facilities appears to be the only reason for these valuable properties in the Bayonne section remaining quiescent, and it is hoped that some amelioration of this condition will be evident during the coming year.

Yankee Girl.—This mine has been idle all year since the 10th of December, 1920, at which time it was closed down. It is understood that negotiations are under way for reopening this property, which has produced over $500,000 up to date.

Dundee.—This mine, which adjoins the last named, is still idle, but I understand that there is some hope of English capital being interested in the property before long.

Mayflower. The Gibraltar Mining Company, with headquarters at Waverly, Wash., has been running a crosscut tunnel on this claim and has driven same about 225 feet toward a "showing" on the trail to the *Mayblossom* and *Free Silver* claims, which is said to lack about 20 feet of reaching its objective, the depth attained being about 125 feet at the present face. The property is situated about 1½ miles west of Ymir, on the Quartz Creek side of the divide between Boulder and Quartz creeks.

Goodenough Group. This property, adjoining the old *Ymir* group, has recently been further developed by means of a drift on the vein 300 feet lower than the collar of the two shafts, which latter are down about 40 to 50 feet each on parallel veins some 30 feet apart at the apex of the hill, where the only known showings were visible until this new tunnel was driven. The new tunnel has encountered the vein in-place at a point about 600 feet west of the shafts, and is said to be exceptionally strong

where recently shown up, being some 6 feet wide from wall to wall, with quartz about 2½ feet wide, plentifully mineralized; but I am not aware that any assays have been made since the vein was encountered, so I am unable to state whether or not commercial ore has yet been reached. The big ore-shoot of the adjacent *Ymir* mine, together with a strong vein running parallel, are the encouraging features about this property.

Perrier.—This property, although it is supposed to have been bonded during the year, has not been operated so far as I am aware.

Gold Hill Group.—This property, situated on Forty-nine creek, was worked most of the year. Two cars of ore shipped to Trail smelter netted, I am told, $50 a ton in gold alone, and another car is now ready for shipment.

Birdseye Group.—This property, situated near Nelson, is owned by an English syndicate, which has been steadily pushing development during the year, resulting, I am informed, in disclosing a promising vein of gold ore.

Noonday Group.—This property, situated on Sitkum creek, 9 miles from Nelson, was idle during the winter, lack of capital being the reason, I understand.

California.—This group, situated near Nelson, is being operated by a Spokane syndicate, which has also taken over the *Athabasca* group and mill, which latter was run continuously during August and September, putting through the ore in the bins which was stoped from the *California* last winter. An average of 6 men was employed. A new raise is being started immediately.

It is rumoured that a deal is pending for the *Queen* mine on Sheep creek, which has not produced for several years, but is credited with a total production of about $2,000,000 in gold.

Another well-known mine which has lain dormant for some time, but which is assuredly capable of producing a large tonnage for years to come, is the *Second Relief* on the North fork of Salmo river, about 14 miles from Erie, a reconstruction of the affairs of which, rumour has it, is under way.

A new location which shows considerable promise is the *Champion* group of two claims—*Champion* and *Champion No. 2*—staked in the spring by S. N. Ross, of Salmo. These claims are situated near Park Siding and some good ore is reported to have been struck, 20 tons of same shipped to Trail being said to have given excellent returns.

There are a number of other properties with good showings in the district, their owners mostly being prospectors who, for lack of capital, are unable to develop their claims. They would no doubt be willing to lease or bond, so that there seems to be plenty of scope within this Division for investors looking for promising gold properties.

PLACER.

A group of four placer claims aggregating 1,000 feet in length were staked on the North fork of Salmo river, about 2 miles from Erie, in the fall, by four miners calling themselves the Carlson Partnership. This locality had been worked in former years and some fairly coarse gold recovered, but insufficient, no doubt, to make it a really remunerative proposition.

Considerable dead-work has been done by the new locators, including the building of several hundred feet of ditch and installing of sluice-boxes, and a quantity of overburden has been removed by ground-sluicing. There is evidently some fairly coarse gold in the gravel, but the men are hampered in their operations by the numerous very large boulders in the ground, and also claim that the false bed-rock of clay, on which the values apparently lie, robs the boxes of considerable of the gold.

As these claims are located on land which has passed from the Crown, the partnership was required to furnish security to cover possible damages. This they apparently had no difficulty in doing, and provided satisfactory bonds to the extent of $1,000, thereby showing that they are in earnest in the endeavour to make the operation a success.

The only other placer claim recorded during the year was on Forty-nine creek, where an old placer-miner has been working and employed another man for a time, but as he was then engaged in dead-work it is unlikely that the employed man's wages came out of the ground, but rather out of his employer's pocket. There is undoubtedly placer gold on this creek, and it is to be hoped that the old-timer's courage and industry will eventually be amply rewarded.

OFFICE STATISTICS—NELSON MINING DIVISION.

Free miners' certificates (individual)	438
Free miners' certificates (company)	6
Free miners' certificates (special)	1
Mineral claims located	200
Certificates of work recorded	348
Mining claims (placer) (under two records)	5
Transfers, agreements, etc.	72
Certificates of improvements	19

ARROW LAKE MINING DIVISION.

WALTER SCOTT, MINING RECORDER (OFFICE AT NAKUSP).

I have the honour to submit the annual report on the Arrow Lake Mining Division for the year ending December 31st, 1921.

Millie Mack.—H. E. Forster has had men doing development-work all summer, and has 16 tons of ore sacked up ready for shipment when snow comes; 12 tons was shipped in January.

Tillicum Group.—This property comprises the *Tillicum, Cultus,* and *Valley View* claims and is owned by Reveler & Robson, who have been working all summer on the property and have 4 tons of shipping-ore on the dump. Assays from the property ran: Gold, $40 to the ton; silver, 100 oz. to the ton. The property is looking well.

Hoodo Group.—Owned by Prough & Reimer, who are getting out shipping-ore. The property is looking well.

OFFICE STATISTICS—ARROW LAKE MINING DIVISION.

Free Miners' certificates	55
Special free miners' certificates	1
Certificates of work recorded	7
Mineral claims recorded	15

ROSSLAND DISTRICT.

TRAIL CREEK MINING DIVISION.

Report by H. R. Townsend, Gold Commissioner.

The only new development in the mining situation in this district during the year has been on the *I.X.L.* property, which is being worked by a local syndicate under a lease. Twenty-three tons of high-grade free-gold ore was taken out; the lessees are continuing and are greatly pleased with their prospect.

The Velvet Syndicate continued work on the *Velvet* until the snow came, when they shut down owing to the difficulty of shipping, as it was found impossible to get teams to transport the ore down to Northport, to which point it must now be taken as the Great Northern ceased operating their trains into the Province last fall.

The Consolidated Mining and Smelting Company of Canada, Limited, has continued with a small force of men on the Rossland properties and shipped 82,092 tons to the smelter.

The *Le Roi No. 2* kept a force of about forty men at work and experimented on a milling process, the success of which is not yet fully determined.

Alexander Constantine has done considerable work on the *Pearl* mineral claim on Record ridge; he is sanguine that the property will prove satisfactory and has brought in some encouraging samples.

As a result of the rich ore struck on the *I.X.L.* some Eastern people came in and inspected some properties owned by them in this vicinity, and expressed their intention of commencing operations on their claims as soon as possible in the spring.

Office Statistics—Trail Creek Mining Division.

Free miners' certificates (individual)	99
Free miners' certificates (company)	4
Free miners' certificates (special)	1
Mineral claims located	23
Certificates of work recorded	53
Bills of sale	4
Certificates of improvements	1
Placer leases	1
Leases of reverted mineral claims	5

SOUTHERN DISTRICT (No. 4).

REPORT BY PHILIP B. FREELAND, RESIDENT ENGINEER.

INTRODUCTORY.

The above district, comprising four Mining Divisions—Grand Forks, Greenwood, Osoyoos, and Similkameen—is situated in the extreme south centre of the Province of British Columbia.

A good deal of time was spent in the examination of properties in the Vernon and Ashcroft Mining Divisions, which prohibited some exploration-work planned on the headwaters of the Roche and Skagit rivers. Reports came in last year of some attractive low-grade silver veins from that locality, but nothing could be done until transportation was improved.

A glance at the prices of metals for the year will account for the large decrease in tonnage in this district as elsewhere. Only the higher-grade silver-lead mines were able to continue operations, and it is doubtful if they did much more than pay expenses.

Towards the end of the year the gradual increase in the price of copper and a decrease in the operating costs again stimulated interest in mining. Owners of gold properties, unable to operate for the past year and a half, are overhauling their plants and doing development-work with the intention of active operations in the spring.

A good many individuals and small companies have been intensively prospecting the old placer-grounds of Rock creek, Granite creek, and the Tulameen river, with indifferent results. It seems unlikely that such prospecting, without the aid of core-drills, will more than pay wages, for history relates that nearly all the shallow ground has been placered, first by white men and then by the Chinese, which leaves small opportunity for those who come after. In the bottom of the creeks and rivers there is a good chance of finding gold, as these areas were beyond the reach of the individual twenty years ago on account of the lack of equipment.

In 1918 the Munitions Resources Commission reported as follows: "Below the mouth of Slate creek and for 3 miles down-stream the Tulameen river widens out to an average of 900 feet, and the gravel lies in large bars and low-lying benches at depths from 20 to 100 feet." The total area was estimated by the Board to be about 15,000,000 cubic yards, most of which consists of heavy, coarse pebbles, with many boulders about a foot in diameter. Large boulders are occasionally encountered, but are by no means numerous and should not present any insuperable difficulties in dredging operations.

Eleven holes were put down by the Commission, the deepest being 72½ feet and the shallowest 11 feet, with a total of 516 feet drilled. Six holes were put down to bed-rock, the others being stopped at depths at which values did not warrant further drilling. These holes only covered a small portion of the area near Slate creek, and consequently nothing definite can be said about the value of the whole ground for dredging operations, but they were attractive enough to justify more drilling to prove its possibilities.

The reason that the Munitions Commission did not continue to search was that platinum was needed at once and the drilling of the entire area and installation of a dredge would take about twelve months to accomplish.

The ground between Tulameen and Princeton, about 20 miles distant, has never been worked owing to the fact that the gravels are heavy and generally deep. Detailed results of the sampling of the Tulameen gravels by core-drills by the Munitions Commission are to be found in their report published in 1920, together with a map of the river showing the location of the drill-holes.

PROSPECTING.

It seems likely that most of the ore-deposits of large dimensions showing a mineralized outcrop have been discovered, although in a great many cases they have not been thoroughly prospected, but Crown-granted before a proper idea of their value can be estimated. There are, however, as already proved in the Phoenix camp, many ore-bodies that do not outcrop and do not show any mineralization, though close to the surface. These covered areas often occur on a contact of limestone with an igneous rock or in a depression where the gangue of a lead happens to be of softer material than the surrounding rock.

Jewel Lake, Greenwood M.D.

White Lake, Osoyoos M.D.

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Prospecting in the district has fallen off considerably in the past three years, owing not only to the low price of metals, but to the idea that the district has been thoroughly prospected, which is not the case.

I have mentioned in previous reports that the district is better equipped with railway, wagon-roads, and electric power than any other part of British Columbia, which is a most important feature when considering the prospective assets of a mine.

There are two possible placer-grounds that have not received much attention in the past—i.e., the benches along Pass creek, as well as the creek-bottom itself near its source. Jewel (Long) lake formerly discharged into Pass creek, and from thence into the Granby river. Also in the vicinity of Fairview, where there are many quartz leads bearing free gold.

The headwaters of the main Kettle river and Cherry creek also have developed placer-grounds, which have not been thoroughly prospected. Some coarse-gold nuggets were brought in from that region this year.

DIAMONDS.

Whilst prospecting for the ordinary minerals in and near the dunite and serpentine dykes which frequent the district, especially in the neighbourhood of Cascade, Grand Forks, Greenwood, Rock Creek, and Tulameen, the prospector would do well to remember that these rocks in some parts of the world, including Tulameen, B.C., and Arkansas, U.S.A., contain diamonds. The Tulameen rocks contain only microscopic diamonds associated with the chromite so far as research has shown. Little investigation has been made in the placers.

Most of the larger diamonds in other parts of the world have been found in the oxidized or serpentinized zone. There are fairly large areas of this serpentine in the Wellington camp, near Phoenix, and also above Cascade. In the Arkansas serpentine there is no chromite present.

The larger valleys present rather too big a field for the prospector, so it is advisable to confine his efforts to smaller depressions near the serpentine when searching for diamonds in the gravels.

Microscopic diamonds have been found in the gravels adjacent to the serpentine rocks in the Boundary country.

TOTAL TONNAGE AND CONTENTS IN MINING DIVISIONS FOR 1921.

Division.	Ore.	Gold.	Silver.	Copper.	Lead.	Fluorspar.	Coal.
	Tons.	Oz.	Oz.	Lb.	Lb.	Tons.	Tons.
Grand Forks	40,411	541	5,745	432,505	.....	6,742	.....
Greenwood	402	69	111,624	.....	51,268	....	.....
Osoyoos	845	125	42,682	.....	.....	....	.....
Similkameen	.....	.....	.....	.....	.....	....	77,310
Totals, 1921	41,658	735	160,051	432,505	51,268	6,742	77,310

A total of 14,869 tons of lime-rock was shipped from the Fife quarries to the Trail smelter for fluxing purposes.

OSOYOOS MINING DIVISION.

Hedley Gold Mining Co.

Operations in the mine and mill were suspended until autumn of 1920 on account of the high cost of operation. During the summer development-work commenced in the mine, followed by repairing the mill and dam, preparatory to active operation in the spring or as soon as the ice has gone from the Similkameen river. Portions of the flume on Hedley creek have been destroyed and will have to be repaired before water can be obtained for milling purposes. The Provincial Government lent assistance in repairing the bridges on Hedley creek to enable the company to haul lumber for the flume.

Peggy and Rawhide Group.

This group consists of the *Peggy*, *Rawhide*, *R.A.*, and *Portland* claims, owned by Jim Walker and D. H. McKinnon, of Hedley, and is situated on the south-west side of Hedley creek at an elevation of about 2,400 feet above Hedley, 2 miles distant. Nearly the entire group is on the Chuchuwha Indian Reserve

and the owners have been unable to get permission from the Indians to ship any ore, so that further exploitation seems inadvisable for the present.

On the *Peggy* an open-cut 15 feet wide in a highly siliceous limestone shows pyrrhotite, pyrite, and specks of chalcopyrite.

On the *Rawhide*, which lies farther down the slope of the creek, a tunnel has been driven in 35 feet, cutting the limestone and silicified wall-rock. The limestone is well mineralized with pyrite and chalcopyrite. A sample taken over 15 feet gave: Gold, trace; silver, 1 oz.; copper, 1.70 per cent. There are good possibilities on this claim, as in the vicinity there are many outcrops of limestone well altered and containing iron and copper.

Horn Silver Mine.

Active operations were carried on through the year by this company under the management of B. Powell, of Similkameen. Most of the work was confined to the lower tunnel and 845 tons of gold and silver ore was shipped to the smelter. This is one of the few properties which have operated continuously since 1914. About fifteen men were employed during the year.

White Lake Basin.

Development-work by means of a tunnel about 200 feet long opened up a 4-foot seam of coal, said to be of a good variety. The owners, who are now incorporated as the White Lake Collieries, Limited, with offices in West Summerland, state that they intend to put a diamond-drill on the property to exploit it thoroughly. Analyses of coal taken from the development-drift showed a higher fixed carbon and lower ash percentage than near the surface. It is to be hoped that this condition will persist at depth.

Silver Crown.

This claim is situated about 1½ miles from the east side of the Similkameen river, on the International Boundary-line. A wagon-road has been built from Oroville, Washington, up the Similkameen river on the east side, and a rough branch from this to the claims. The first work was done upon the *Submarine* mine, located on the United States side of the boundary and adjoining the *Silver Crown*.

The vein on the *Submarine* claim varied in size from 10 to 15 feet in width and was exploited by means of open-cuts, a shaft, and two tunnels; one tunnel under the vein 400 feet in length and another drift on the vein 585 feet. The greater part of the lead in the upper tunnel passed through what appears to be an exceedingly low-grade quartz. Occasionally segregations of mineral showing argentite, chalcopyrite, galena, and iron, with a small percentage of calcite, are found. These minerals carry very high values in gold and silver.

The work on the *Silver Crown* was done after the development of the *Submarine* and shows a continuance of the lead of about the same size, striking generally N. 75° E. (mag.) and dipping nearly flat. Tunnels 90, 95, and 100 feet respectively, from 50 to 100 feet apart, form the development-work done on this claim. The lead here exposed is undoubtedly a continuation of the *Submarine*, for it is traced by open-cuts on the surface for 1,500 feet.

The quartz in the tunnels of the *Silver Crown* is crushed and oxidized in the fractures and carries low values in gold and silver. A thorough sampling of the vein will have to be made before any definite conclusion can be arrived at regarding possible profitable operation. The high values in the segregations added to the lower values of the main body of quartz may make an average tonnage value which would pay the owners. It might also be advisable, if possible, to continue the development on the *Silver Crown* to a point where the lead dips into the hill and the oxidized zone is passed.

The location of these claims, within 2 miles of the Great Northern Railway and about 4 miles from the high-power station, makes them attractive from a transportation and cheap fuel standpoint.

King Edward Group.

This group of claims, consisting of the *King Edward*, *Bank of England*, and *Yellow Jacket*, lies on a high ridge between Hunter creek and Susap creek, about 3 miles from the Similkameen river on the west side, 10 miles south of Keremeos. Most of the work on these claims was done many years ago, except on the *King Edward*, which was exploited during 1918 for its molybdenum content. A tunnel was driven 35 feet on a quartz lead varying in thickness from 1 to 20 feet. About 4 feet on the hanging-wall near the face of the drift was well mineralized with chalcopyrite, pyrite, and molybdenite. Samples taken from this lead over 4 feet gave: Gold, trace; silver, 1 oz.; copper, 1.60 per cent. Several open-cuts were excavated about 100 feet west of the tunnel, where there was a strong indication of molybdenum in the fractures of the granite.

On the *Yellow Jacket* a 25-foot shaft has been sunk, following small fractures in the granite filled with pyrite, chalcopyrite, and copper carbonates. A tunnel 30 feet long was also driven on a small mineralized fracture about 2 inches wide.

On the *Bank of England* a tunnel had been driven 60 feet and a cross-cut from the face about 30 feet. There was a small stringer of sulphides of iron and copper on one side of this tunnel which was too small for any tonnage prospect.

FAIRVIEW CAMP.

Boyles Bros., of Spokane, Washington, did several hundred feet of diamond-drilling for Eastern capitalists in this camp. It is generally understood that drilling will proceed when the weather conditions improve. The large quartz veins in this vicinity contain some free gold, and if the values are as persistent in depth as on the surface, active operations may be looked for in the future.

SIMILKAMEEN MINING DIVISION.

Canada Copper Corporation.—This company continued to be inactive during the year, chiefly on account of its inability to operate at the low price of copper. If the price of metals continues to rise, it is probable that during 1922 work will commence. There are several slides and washouts on the railway between Princeton and the mine which will have to be cleared away and filled before any ore can be shipped to the mill or concentrates to the smelter.

Princton Coal and Land Co.—Production was carried on throughout the season on the company's property at Princeton, and the total output from the mine amounted to 13,966 long tons of coal, of which 10,756 long tons was sold and shipped.

Coalmont Collieries, Ltd.—A good deal of hard luck accompanied the operations of this company at Coalmont during the year. Amongst minor mishaps were the loss of a large portion of new cable by fire and several breaks in the operating cable, which delayed operations in the mine. The total shipments made were 59,709 long tons of coal. Development-work amounted to about 1,250 feet of main tunnel on No. 3, with a counter-level 1,600 feet, with development panels between and above. No. 2 level was not extended, but developed by a counter-level and panels.

Princeton Mining and Development Co., Ltd.—This company owns the *Copper Farm* mine, situated about 4 miles east of Princeton. Last year a 3-drill Rand compressor and 80-horse-power boiler were installed. This year the lower main drift was extended and an upraise driven 125 feet to connect with No. 2 level. It will require about 75 feet more upraising to connect to two levels. Some small stringers of copper sulphides and carbonates were struck in the raise and an oxidized zone developed at the top of the raise. The location of these claims within a few hundred feet of the Great Northern Railway and river is good, and should an ore-body be developed the expense of operation could be kept at a minimum. Future development is looked forward to with interest. The property is managed by Fred Foster, of Princeton.

ROCHE RIVER SECTION.

Red Star and Anaconda.

These claims are owned by Bonnybier & Pouel, of Princeton. The lower crosscut tunnel, driven 500 feet, was abandoned for the present on account of bad air. A new open-cut was started farther up the hill with the idea of tracing the vein on the surface as a future guide to driving the lower crosscut tunnel. The upper workings consist of three tunnels, 250, 400, and 65 feet respectively, in the mineralized zone, in which there are lenses of chalcopyrite carrying gold and silver varying in thickness from a few inches to 4 feet in a gangue of quartz. Unfortunately the upper tunnels were partially caved owing to the crushed and slippery nature of the schistose formation, and only a part of the workings could be examined. Over an area about 500 feet in length and 200 feet wide copper carbonates were seen in the fractures of the rock.

Knob Hill.

The owner of this claim, John Bowman, of Princeton, continued driving a crosscut tunnel at an elevation 50 feet below the open-cut and shaft, which proved a shear-zone containing 4 feet of ore carrying chalcopyrite and chalcocite, as well as carbonates of copper. About 60 feet from the mouth of the crosscut tunnel what appears to be a parallel lead was cut, containing values up to 3 per cent. copper and a trace of gold and silver. The lead strikes N. 50° W. (mag.) and dips 50° S.W. The surrounding formation is a sericite schist.

SUMMIT CAMP.

Bluebell and Mountain View.

W. Hess continued the exploitation of these claims throughout the winter and early summer. Several open-cuts were excavated on the lead and a tunnel driven 80 feet, 25 feet below the cuts. Surface indications proved a very narrow stringer, traceable for over 1,000 feet in an easterly and westerly direction (mag.) Small particles of silver-lead were found in the vein, but these were not persistent. In the lower tunnel a lead was developed about 1 foot wide, carrying values in silver and lead. The country-rock is a highly metamorphosed sedimentary, cut with numerous dykes.

Stephenson's Claim.—Vancouver interests took a bond on this claim with the intention of shipping some ore. At the time of the arrival of the men the workings were full of snow and water. The data on the operations of these interests are not to hand.

LAW'S CAMP.

Assessment-work was done on some of the claims in this camp by Louis Marcotte, of Coalmont, and a better grade of ore encountered. Formerly the ore contained too high a percentage of zinc to be shipped profitably, but the new work has developed a grade higher in silver and low enough in zinc to make it a profitable undertaking. It was the intention of the owner to do more work this winter, and it is to be hoped that more ore free from zinc will be found.

TULAMEEN RIVER.

Several small parties of men continued to placer for gold and platinum along the benches of the Tulameen River in the vicinity of Olivine mountain. No information is to hand regarding the amount of gold or platinum taken out.

GRAND FORKS MINING DIVISION.

Emma.

This property, owned by the Consolidated Mining and Smelting Company, was shut down early in the year, and after mining the sills and pillars the mine was dismantled. The ore was generally low grade, carrying about 1 per cent. copper and a little gold and silver. It was valuable to the company chiefly as a flux for use in their furnaces at Trail. The total shipments amounted to 18,800 tons.

Rock Candy.

This mine was worked for a short period during the beginning of the season. Some difficulty was experienced in separating the silica from the fluorite so that the percentage of silica could be kept below 6 per cent. The lower price of the mineral and lack of demand prohibited further shipments of concentrates being made and the mine was temporarily closed. A total of 6,742 tons of concentrates was shipped from the mill.

Fife Lime-quarries.—A total of 14,869 tons of lime-rock was shipped from this property, on Christina lake, to the Trail smelter for fluxing purposes.

FRANKLIN CAMP.

Union.

The Union Mining and Milling Company was incorporated in 1920 and an endeavour made to sell stock for development purposes. The tightness of the money market and the uncertainty of the cost of supplies, etc., prohibited success along these lines for the time being. The gradual rise in the price of metals and general stabilizing of conditions point to better times in the mining business, and it is to be hoped that the owners will meet with success in their venture in 1922. The mine as it stands at present is well worth developing, and the finding of other secondarily enriched ore-bodies will greatly enhance the value of the property and make possible by combination the mining of any ore-bodies which are too low grade to mill.

Davenport and Dawn.

These claims are owned by Bert Averill, of Grand Forks, and are situated near Franklin creek in Franklin camp, about 45 miles from Grand Forks, on what is locally known as the "Black Lead" or "Pyroxenite" area. Development-work consists of a tunnel 75 feet long and a shaft 20 feet deep in and near the contact of the pyroxenite and syenite rocks. At the end of the tunnel on the contact a small lens of highly mineralized pyroxenite was cut, containing minute specks of

bornite and masses of chalcopyrite. A picked sample of this rock carried values of 11 per cent. copper and 0.11 oz. in platinum. Future development of this lens of ore will be looked forward to by those who are interested in the finding of commercial quantities of copper-platinum ore in the olivine rocks.

Maple Leaf.

At the request of the stockholders of the Maple Leaf Mines Company, most of whom are residents of the United States, a careful sampling of the lower workings was carried out. During the past few years remarkable results were obtained, presumably from samples taken from the mine by the former management and others. These samples showed a fairly high percentage of lead, copper, gold, cobalt, and platinum, as well as its alloys, resulting in a good deal of speculation by the public. The results of samples taken on a tonnage basis over areas said to contain the above-specified minerals were practically *nil*, showing no lead, cobalt, or platinum, or its alloys, and only a very small percentage of copper.

The country-rock in the mine and vicinity is a highly altered volcanic tuff, cut by two porphyry dykes about 4 feet wide running diagonally through the tuff. In the vicinity of these dykes, which were injected after the forming of the tuff, a large amount of fracturing has taken place. In the fractures a good deal of iron oxides and carbonates have been deposited, and it is possible that the mineral was scraped out and some high assay results obtained. This is not a proper means of obtaining a fair tonnage average. In the upper workings there are segregations of copper ore in and near the contact of the pyroxenite and syenite rocks which give a fairly high ratio of platinum to copper-sulphide content, but these segregations are small and will need more development before the zone can be mined profitably.

If the money spent in driving the lower tunnel about 340 feet and on the partial installation of a 50-ton smelter and ore-bins had been used for legitimate development in and near the upper workings, the stockholders would have the satisfaction at least of knowing that their money had been spent in the right place. As it stands now their money is gone, there is no ore developed, and the confidence of the public is shattered.

Paulson District.

Terzic.

A 25-foot open-cut was driven to tap the bottom of the old shaft about 10 feet below the surface. The lead was cleaned off and about 4 feet of ore exposed. Samples taken from the ore carried: Gold, trace; silver, 0.60 oz.; copper, 1.7 per cent.; lead, 2.5 per cent.; zinc, 5 per cent. The formation is an altered limestone in contact with greenstone, with tongues of granite intruded into the limestone. This is a good prospect and if a larger tonnage could be developed it might find a ready market.

Christina Lake.

Shamrock Group.

This group of claims, consisting of the *Elmore*, *Congdon*, and *Shamrock*, is situated on Shamrock hill, about 1½ miles north-east of Christina lake. The mineralized area covers about four claims and constitutes outcrops of pyrrhotite interspersed with chalcopyrite. The country-rock is mainly greenstone, covered by remnants of limestone and intruded in places by olivine rocks. Along the line of contact between the limestone and greenstone a good deal of alteration has taken place, forming garnetite and epidote carrying copper and iron sulphides. These claims were prospected about twenty years ago, when Rossland camp was booming, and all the work seems to have been done on the pyrrhotite outcrops and little or no attention paid to the copper-contact minerals. A closer examination of these claims might be beneficial to the prospector.

Lightning Peak Camp.

Rampulo and Silver Lump.—The owner of these claims, B. Cortiana, did a considerable amount of work during the summer, driving a 400-foot tunnel and 27-foot upraise. Silver-sulphide ore was struck in this tunnel scattered through the limestone, carrying values of 157 oz. in silver and 0.35 oz. in gold to the ton. There are no definitely defined walls to the lead at present.

Lightning Peak.—This mine was leased to William Williams and a 400-foot drift commenced with the idea of developing the vein about 40 feet below the old winze. Some good ore is being encountered in segregations in a 4-foot lead. This ore has a high lead content. Numerous shipments have been made by the former lessees.

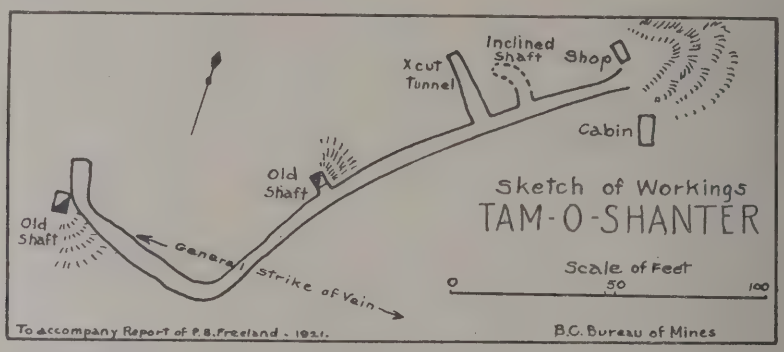
GREENWOOD MINING DIVISION.

A genuine endeavour was made by the prospectors and mining men of Greenwood to thoroughly exploit the country in the vicinity of the town for ore-bodies large enough to promote the welfare of the mining industry, which in the last few years has gradually declined. Some success was met with on the *Tam O'Shanter*, where Al. Morrison and Dan McGillis opened up a vein of gold, silver, and lead.

The operation of the *Providence* mine under the management of the owners was anything but a success, and the mine closed down after a few months, owing a considerable amount for labour, supplies, etc.

Providence. The owners of this property, C. Madden *et al.*, of Chicago, carried on operations for a short time during the summer and shipped 97 tons of gold-silver-lead ore to the smelter. Under the management of Al. Morrison and Dan McGillis, of Greenwood, the operation of this mine was a success, and the owners would do well to lease this property to them in the future. The presence of the secondary silver minerals in the lower levels is evidence of possible payable ore-bodies in the mine yet undeveloped.

A demand has been made by the bondholders for the payment of the principal, $50,000, and interest now due on the bond issue. The total, plus interest, notes, material, labour, etc., amounts to $85,024.48. If this amount is not immediately taken up by the stockholders, foreclosure proceedings will be taken.



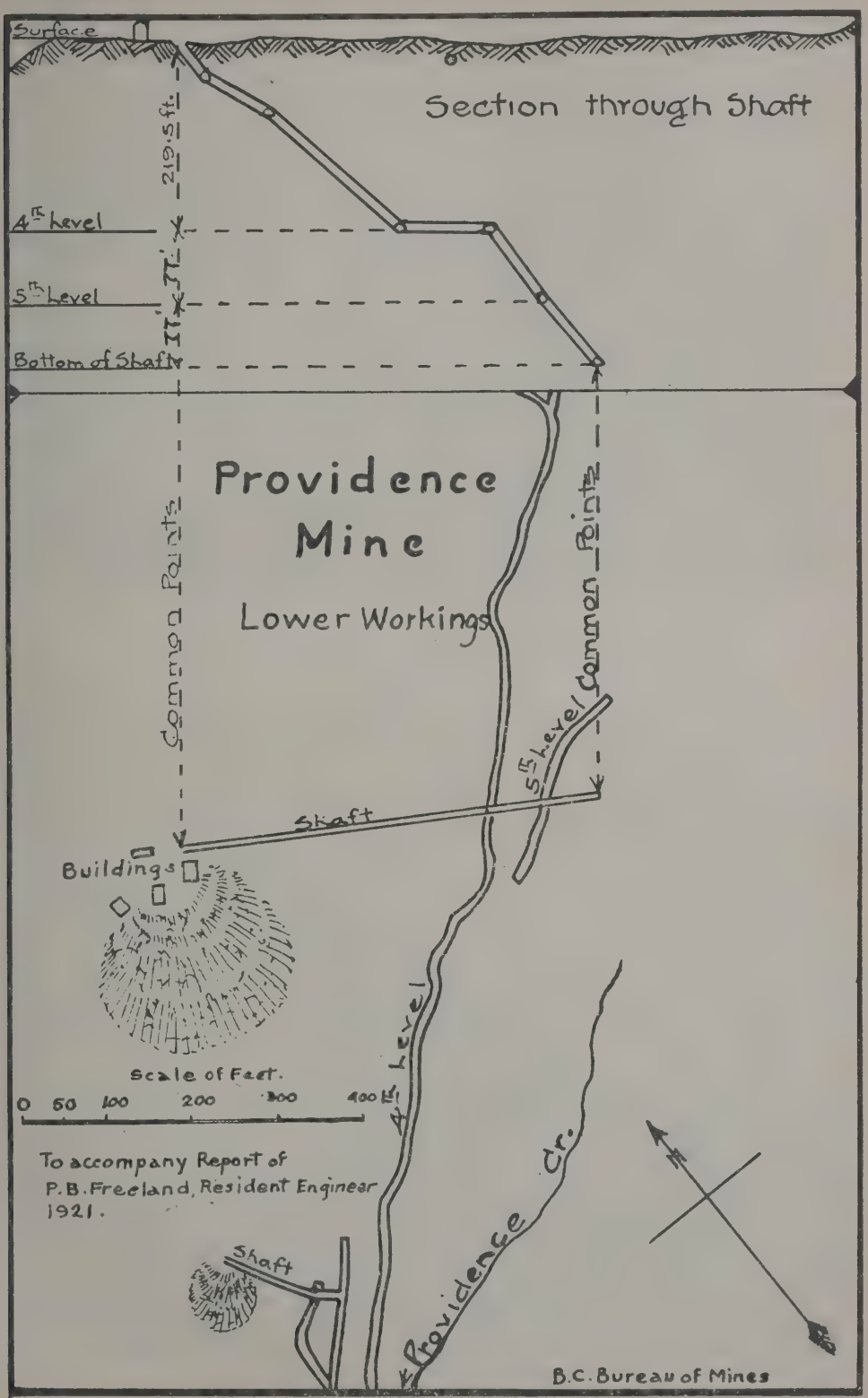
Vendella. This claim, located about a mile west of Anaconda, is owned by R. Pascoe, Bombini, *et al.*, of Anaconda, near Greenwood. An open-cut driven 25 feet on a contact of greenstone and limestone developed segregations of pyrite and chalcopyrite. Most of the mineralization occurred in the altered limestone. The gangue contained calcite, epidote, garnetite, with inclusions of black tourmaline containing specks of chalcopyrite and a trace of nickel. About 1,500 feet farther south boulders of the same material were found embedded in the wash.

The location of this claim, within easy reach of the Canadian Pacific Railway and high-power line, is excellent, and should a body of ore be developed the mining and transportation costs will be low. It is to be hoped that the owners will endeavour to prove the extension of this outcrop along the lines of contact by open-cuts and stripping.

A sample taken from the dump of the open-cut assayed: Gold, trace; silver, 0.80 oz.; copper, 2 per cent. Separate analyses proved the presence of nickel.

Last Chance. Some Greenwood interests examined this property, which had been operated several years ago, with the idea of opening up the old workings by means of a tunnel about 300 feet long. A thorough examination of the property was impossible on account of water in the shafts. Some high values were obtained from samples taken from the old dumps, but no average tonnage value could be arrived at. It is quite possible that there is some good ore left in the mine, but it would be extremely unwise for any one to drive a tunnel to tap the lower workings without first unwatering the shafts, exploring the lead, and thoroughly sampling it.

The ore sampled from the dump contained tetrahedrite, galena, zinc, and pyrites in a gangue of highly metamorphosed limestone. Values obtained were: Gold, 0.46 oz.; silver, 81.2 oz.; lead, 2 per cent.; zinc, 5 per cent.


Surface
Section through Shaft
219.5 ft.
4th Level
5th Level
Bottom of Shaft
11 ft.
Common Points
Providence
Mine
Lower Workings
Common Points
5th Level
Shaft
Buildings
Scale of Feet.
0 50 100 200 300 400
To accompany Report of
P.B. Freeland, Resident Engineer
1921.
4th Level
Providence Cr.
Shaft
B.C. Bureau of Mines

Helen. A lease was taken by Ole Lofstad on this old mine, which is situated within half a mile of Greenwood. Two tunnels were driven at lower elevations than the outcrop and a small quartz lead developed. Samples taken from the old shaft-workings gave results varying from a trace in gold to 1.50 oz.; 2.60 to 31 oz. in silver, and 7 to 26 per cent. lead to the ton. This property is well situated for transportation, power, etc.

Bonny Bell. This property is situated on the east side of Deadwood, adjoining the wagon-road. The lessee, O. Lofstad, sunk an inclined shaft on a quartz lead about 40 feet deep. The vein varied in width from 2 inches to 1 foot and carried silver-lead and pyrite. The quartz was only mineralized in small lenses, too far apart to make the ore a commercial one. Samples from these lenses gave a trace in gold, 35.5 oz. in silver, and 18 per cent. lead to the ton.

Crown Point. This old Crown-granted claim, situated on the south side of James creek, was leased by James Kerr, of Greenwood, and the old shaft cleaned out and a crosscut tunnel driven across the ore-body 10 feet. The ore occurs as segregations in the limestone and contains 0.10 oz. in gold and 6 oz. in silver to the ton, and 4 per cent. lead. Very little could be seen beyond the workings because the hillside was deeply covered with gravel and loam. It is possible that a fairly large body of low-grade ore could be developed in this shaft.

Long Lake Camp.*

Roderick Dhu. Greenwood interests took an option on this claim, which is situated to the north of Jewel lake, on Roderick Dhu mountain. Very little work has been done on this claim since 1903, when a shaft was sunk about 75 feet and some ore stoped out to the surface for 100 feet to the south of the shaft. This shaft was filled with water at the time of examination, so nothing could be seen of the lead at depth. On the surface the quartz vein, varying from 2 inches to 1 foot in width, was mineralized with galena, pyrite, and limonite in the fractures, and carried values of 1.12 oz. in gold and 1.50 oz. in silver to the ton. This lead could be traced for about 500 feet north-east, where another shaft had been sunk 25 feet in the quartz. At this point the lead seemed to be more or less barren of values. Beyond the second shaft the vein was displaced by the intrusion of a pulaskite-porphyry dyke about 200 feet wide. The walls of the vein were gneiss.

Moonlight. This claim adjoins the *Roderick Dhu* on the north and is partially developed by open-cuts and shallow shafts on a quartz lead varying in width from 10 inches to 2 feet and traceable over a distance of 1,000 feet. The vein is not well mineralized, as far as the development shows, carrying values of 0.10 oz. in gold and 4 oz. in silver to the ton. The size and persistency of the vein warrant further exploitation.

Electric. The partial prospecting of this claim adjoining the *Roderick Dhu* to the south, was carried on by Greenwood interests in the autumn. One of the old open-cuts was cleaned out and a tunnel driven on the lead for 50 feet. For 12 feet in from the mouth of the open-cut and tunnel good ore was struck, averaging about 1 foot in width and carrying 1.68 oz. in gold, 22.9 oz. in silver, and 1.60 per cent. lead to the ton. Beyond this point the vein was crushed for about 12 feet, coming in again near the face and showing only quartz barren of values. This lead strikes north and south (mag.) and dips 64° to the east.

Ethiopia. G. Duhamel, of Greenwood, took a lease from the Government on this claim, situated on the south side of Jewel lake, and extended the old crosscut tunnel, as well as drifting on a lead to the east and west. This vein was cut about 60 feet from the mouth of the tunnel and showed bad fracturing and displacement as far as the face of the drift. Some galena and pyrite occurred in and along the fractures. On the surface beyond the end of the crosscut several open-cuts exposed a well-mineralized quartz lead carrying gold and silver. This vein dips flat into the hill and probably is beyond the end of the crosscut. Its strike coincides with that of the *Jewel* and may possibly be an extension.

Wallace Mountain.

In spite of the many ups and downs in this camp during the last ten years, due chiefly to the extremely complicated system of faulting of the veins, the present owners of the *Bell*,

* The old name of Long lake has been changed by Geographic Board to Jewel lake, as the former name conflicted with Long lake at Vernon.

Westkettle River, between Beaverdell and Carmi.

Sally Mine, Greenwood M.D.

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D. McIntosh and P. Crane, and Ed. Nordman, superintendent of the Wallace Mountain Mines, Limited, owners of the *Sally group*, are to be congratulated on the success of their efforts in keeping up the shipments of ore to the smelter. To-day the *Bell* and *Rob Roy* are in splendid condition and some very high-grade silver ore has been developed, giving expectation of a larger output for 1922.

Bell. Operations on this mine were continued throughout the year in spite of the lower price of silver and high cost of supplies. Development-work was kept well ahead of the stopes, which meant continual crosscutting on account of the extreme faulting of the ground. A compressor installed two years ago enabled the owners to use machine-drills, which greatly facilitated the exploration-work. A good shoot of very high-grade silver ore was struck late in the year; values up to 6,000 oz. in silver having been obtained. The total shipments were 107 tons of gold, silver, and lead ore.

Sally Group. This group consists of the *Sally* and *Rob Roy* claims and is owned by the Wallace Mountain Mines, Limited, of Penticton. Practically all the tonnage shipped and development-work was done from the *Rob Roy* claim, which adjoins the *Sally* on the north. An average of 11 men was employed and the total shipments amounted to 176 tons, with an average silver content of 323 oz. of silver to the ton. Development consisted of 477 feet of drifting, 496 feet of crosscutting, and 33 feet of upraising.

Highland Lass. This claim is situated a quarter of a mile to the north of the *Bell* mine, and is owned by I. Hallet, of Greenwood. An open-cut and tunnel 50 feet long was driven on the lead and about 10 tons of ore excavated. A fault near the face of the drift caused some trouble, but the lead was found again to the north of the fault. The lead consists of quartz and small particles of country-rock and strikes N. 70° E. (mag.), having a width of about 1 foot. A grab sample from the sorted ore gave 0.12 oz. in gold, and 959 oz. in silver to the ton, 24 per cent. lead, and 6 per cent. zinc. A good deal of fine carbonates were taken in this sample, which probably accounts for the exceedingly high percentage of silver. No shipments were made.

Napanee Group. After several years of diligent searching, C. G. Cummings, the owner of this group, discovered a vein of gold, silver, lead, and zinc ore. Although the wall-rock appears to be more or less shattered, there is every indication of the lead being in-place. The width of the vein is 5 inches and the strike N. 65° E. (mag.). A sample from the vein assayed 0.20 oz. in gold and 32 oz. in silver to the ton, 7 per cent. lead, and 14 per cent. zinc. The gangue was quartz. The zinc content is high, but may not prevail.

Highland Chief.—This claim is owned by Ed. Maloney, of Penticton. A high-grade silver-lead vein was uncovered and a tunnel driven in about 20 feet, when a fault was encountered. No more work was done to try and locate the lead, so the 2 tons of ore excavated was shipped to the smelter.

Kokomo.—This mine shipped 10 tons of high-grade silver-lead ore to the smelter at Trail.

Castor Frac.—Sutherland & Thompson, lessees, shipped 2 tons of silver-lead ore to the smelter.

Skylark Camp.

Surprise No. 3. This claim was again prospected by Joe Cunningham, of Greenwood, and a new lead of silver-lead discovered to the north-west of the old shaft. A vertical shaft was sunk 20 feet on the lead to a fault, which was followed down at a lesser angle for 10 feet and drifted on for about 35 feet. The vein from the surface down was badly broken and the ore, a silver-lead, and zinc occurred in small lenses. Other shallow shafts were sunk and the same condition found. It seems probable that the extreme faulting is a surface condition in the cover-rocks and that when some greater depth is attained the lead will be more consistent.

Boundary Falls.

White Star. The owner of this claim, Mark Christianson, of Boundary Falls, sunk an inclined shaft 40 feet deep on a quartz lead about 18 inches wide in the argillites. Small segregations of pyrite occurred in the vein carrying low values in gold and silver. The vein is well formed and outcrops persistently. A tunnel driven under the outcrop seems to be the best method of developing this vein and will be less expensive than sinking a shaft.

Texas. This claim lies to the north-east of the *Providence* group and is owned by Geo. Swanland, of Boundary Falls. Only a small amount of work had been done at the time of examination, consisting of a trench, small open-cuts, and a tunnel 15 feet long. The lead, striking north-east (mag.), composed of quartz, was only about 2 inches wide, showing small stains of oxide of iron. The country-rock was a greenstone, intruded in the vicinity of the workings by alkali-syenite dykes. A sample of quartz gave a trace in gold and 0.70 oz. in silver to the ton.

Deadwood Camp.

Golconda. Operations were first commenced on this claim in 1907 by Quebec interests and a shaft sunk 45 feet, open-cuts 100 feet, and a crosscut tunnel 690 feet. The old shaft was sunk on a pyrrhotite-capping, which contained values on the surface of 0.78 oz. in gold and 0.50 oz. silver to the ton. The ore, if any, at the bottom of the shaft was not explored because of water. The open-cut showed extensive mineralization near the shaft. The long crosscut tunnel was driven with the intention of prospecting the area about 200 feet below the open-cut. Evidently those interested ran short of capital before the venture was proved. E. A. Wanke, the present owner, drove another crosscut tunnel 110 feet long and 190 feet below the shaft, farther to the north than the old tunnel. About 200 feet more will have to be driven before the tunnel is vertically under the shaft.

The country-rock surrounding the workings is a greenstone, capped by altered volcanic tuffs. It seems advisable before doing any more development-work to unwater the shaft and find out the value and size of the ore-body in the bottom.

Rock Creek.

Riverside. Paul Nelson and Oli Lofstad *et al.*, of Oroville, Wash., and Greenwood, leased this claim from the Government and drove a crosscut tunnel 60 feet, another 40 feet, and 15 feet of upraise, besides building log houses and cook-shack. In former years, when transportation was difficult, several hundred tons of ore was mined, sorted, and shipped to the smelter, averaging about $50 to the ton. Average samples taken over 3 feet of lead-matter near the collar of the inclined shaft gave 0.08 to 0.12 oz. in gold, 29.5 to 34 oz. in silver, 3.5 per cent. lead, and 7 per cent. zinc to the ton. It was impossible to take any samples lower down the shaft because of water.

This zone near the collar of the shaft was highly oxidized and may not be representative of the ore lower in the workings. Only when the shaft is unwatered can a proper estimate be made of the value of the mine. The crosscut tunnel, now being extended, will develop the zone near the bottom of the shaft in another 40 feet. The close proximity of the railway, river, and high-power electric line greatly adds to the possibilities of operating the mine profitably.

Summit Camp.

Blue Bell. This property, formerly owned by W. Shaw and Jack Dorsey, is now being prospected by Mike Blufontein, of Coltern. This old Crown-granted claim is situated about 1,500 feet north-east of the *Emma* mine and within half a mile of the Greenwood–Grand Forks wagon-road. The old shaft, 110 feet deep, was unwatered and retimbered and a drift driven 25 feet north, 60 feet down from the collar. The mineralized zone occurs in the limestone near its contact with greenstone and contains small lenses of chalcopyrite and pyrite in epidote and garnetite, averaging about 3 feet in width. To the south of the shaft an alkali-syenite dyke cuts the formation and probably disturbs the mineral-zone in that direction. This is a good formation for the deposition of copper ores and further development to the north seems worth while.

Lightning Peak Camp.

The developments in this camp are progressing favourably in spite of the short season and lack of capital by most of the claim-owners. A new discovery on the *Potosi* group is an added interest, bearing out the theory that the mineralized area follows around the foot of Lightning peak, where the igneous rocks are in contact with the sedimentaries. Future development of this camp should be watched carefully. If the vein on the *Waterloo* and *Potosi* claims which have the same strike, can be connected by development-pits the owners should have no trouble in interesting capital.

Waterloo. Assessment-work was done on the tunnel below the blacksmith's shop and a crosscut tunnel driven into the foot-wall, which developed a foot of ore hitherto undiscovered. In a formation of this character, limestone intruded by granite, the owners would do well to crosscut occasionally a few feet into both walls. This is a silver-lead property from which very high-grade ores were shipped from the surface. The lower zone seems to assay from $30 to $100 in silver and lead, which is too low grade to ship.

Potosi Group. This group of claims consists of the *Potosi*, *Potosi No. 4*, and *Silver Spot No. 4*. The owners, Jim Graham and Nelson, of Greenwood, turned the creek in the vicinity of the claims and sluiced off the gravel-wash, which was about 10 feet deep, resulting in the exposure of a vein about 8 feet wide in the limestone. The ore is silver, galena, and tetrahedrite in a gangue of calcite. This vein has the same strike as the *Waterloo* and possibly lies in the same fractured zone. The continuance of this lead will have to be proved by pits and open-cuts, which will take time as the wash is deep.

Lumpy.—A 30-foot tunnel was driven on this property by Walter Johnstone. Some good silver sulphides were encountered scattered through the limestone, but no definite lead developed. This claim lies in the same zone as the *Potosi*.

BOUNDARY DISTRICT.

GREENWOOD MINING DIVISION.

REPORT BY W. R. DEWDNEY, GOLD COMMISSIONER.

I have the honour to submit my annual report on mining operations in the Greenwood Mining Division for the year 1921.

NEAR GREENWOOD.

Providence.—This mine shipped 97 tons of first- and second-class ore to the Trail smelter during the year. The owners, the Providence Mining Company, Limited, have commenced to extend the development-work on the property.

Tam O'Shanter.—Owned by A. J. Morrison and Dan McGillis. The ore carries silver and gold. Development consisted of drifting 300 feet to strike the lead at depth and raising 75 feet to connect with a shaft. Ore has been struck at the bottom of the shaft where it meets the raise. A shipment is expected to be made at an early date. Indications are that this mine will soon be on the shipping-list.

Vendella.—The work done on this property during the year consisted of an inclined shaft 25 feet long; another shaft 30 feet deep; open-cut 20 feet long, 10 feet wide, and 15 feet high. The ore carries copper and gold. The future development of this property is looked forward to with great interest, as the work performed so far is most encouraging to the owners, Samuel Bombini *et al.* The Department of Mines has constructed a good trail to the mine and it is proposed to soon ship some ore for a trial test. About 80 tons of ore is on the dump ready for shipment.

WALLACE MOUNTAIN, NEAR BEAVERDELL.

Bell.—Operated by Duncan McIntosh and Pat Crane. Some 106½ tons of ore (mainly silver) was shipped to the Trail smelter during the year, containing 32,456 oz. silver, the total returns being $21,691. The average number of men employed was six. Two cars of ore are now ready for shipment. The development consisted of drifting 888 feet and raising 250 feet.

Wellington.—Sutherland & Thompson shipped 8 tons of ore to the Trail smelter that ran 247 oz. silver to the ton. Twenty-five feet of drifting was done on the lead and some overhead stoping.

Castor Fractional.—Sutherland & MacPhee shipped 2 tons of silver ore to the Trail smelter for treatment. They drifted on the lead 60 feet.

Revenge Group.—The owner, G. M. Barrett, opened up a crosscut on the lead 10 feet long and drove a tunnel 40 feet. He is getting out some very fine ore, but did not ship to the smelter during the year. An ore-bin 16 by 24 feet was built on the property.

Kokomo Fractional.—A 70-foot tunnel was driven on the claim and a shaft sunk 45 feet. Ten tons of good ore was shipped to the Trail smelter. The ore carries silver and lead.

Highland Lass.—This claim adjoins the *Bell* and is owned by I. H. Hallett and R. Smailes. The ore contains silver and gold, being similar to that of the *Bell.* J. McKellar has an option on the Smailes' half-interest. There is about 15 tons of ore on the dump ready for shipment.

Dayton Fractional and Doris Fractional.—The usual assessment-work was done on these claims with good results. On the *Dayton Fractional* a body of low-grade copper ore was uncovered 10 feet wide and running about $4.50 to the ton, all values. Not enough development-work has been done to determine the extent of the ore-body.

Riverside Group.—Situated about 3 miles above Rock Creek, on the east side of Kettle river, and owned by the Jack Paul Mining Company, with head office at Spokane, Wash. Two men were employed during the year. The ore carries silver, gold, and lead. F. Keffer, mining engineer, of Spokane, inspected this property recently, with the result that the company is going to drive a tunnel and employ more men.

Surprise No. 3.—Situated in Skylark camp and leased to Joseph Cunningham and Sartoine. The development consisted of a tunnel driven 60 feet long, sinking 25 feet, drifting 50 feet, and

an open-cut 100 feet long. A 2-foot vein was exposed, averaging about $100 to the ton, I am informed by Mr. Cunningham. The ore carries gold, silver, and lead.

Sally Group.—Average number of miners employed, 8; average number of others employed, 4.

Shipments: One car to the Northport smelter, 38.5 tons; four cars to the Trail smelter, 138 tons; total, 176.5 tons.

Values paid for: Gold, 1.161 oz.; silver, 56,284.09 oz.; lead, 23,685 lb.

Development: Drifting, 477 feet; crosscutting, 496 feet; raising, 33 feet.

Practically all the development-work was done on the *Rob Roy* and all the ore shipped was taken from this claim. The mine is in splendid condition, and the owners, the Wallace Mountain Mines, Limited, anticipate a larger output in 1922.

OFFICE STATISTICS—GREENWOOD MINING DIVISION.

Free miners' certificates	136
Locations (quartz)	47
Locations (placer)	5
Rerecords (placer)	4
Certificates of work	136
Leases of reverted mineral claims	17
Bills of sale	14
Permits to search	1
Leaves of absence	3
Powers of attorney	4
Certificates of improvements	1
Filings	13

GRAND FORKS MINING DIVISION.

REPORT BY S. R. ALMOND, GOLD COMMISSIONER.

I have the honour to submit the annual return of the office statistics of the Grand Forks Mining Division for the year 1921, as below.

As the mining industry in this Division will be covered in the report of the Resident Mining Engineer for the Southern District (No. 4), there will be no need of a report on this head from the Gold Commissioner.

OFFICE STATISTICS—GRAND FORKS MINING DIVISION.

Free miners' certificates	85
Locations	25
Certificates of work	85
Bills of sale	11
Filings	6
Certificates of improvements	1
Crown grants	1
Leases of reverted claims	6

OSOYOOS MINING DIVISION.

REPORT BY JAS. R. BROWN, GOLD COMMISSIONER, FAIRVIEW.

I have the honour to submit the annual report on mining operations in this district for the year 1921.

I regret to say that there has been no improvement in mining operations during the year; rather the reverse.

OFFICE STATISTICS—OSOYOOS MINING DIVISION.

Locations	84
Certificates of work	106
Conveyances	10
Free miners' certificates	171

SIMILKAMEEN MINING DIVISION.

REPORT BY HUGH HUNTER, GOLD COMMISSIONER.

I have the honour to forward the mining statistics of this office for the year 1921.

OFFICE STATISTICS—SIMILKAMEEN MINING DIVISION.

Free miners' certificates	185
Location records	73
Certificates of work	214
Bills of sale	9
Certificates of improvements	15
Abandonments	1
Liens	1
Leases (mineral claims)	5
Leases (placer claims)	9
Powers of attorney	5
Record of placer claims	9
Mining receipts, general	$2,450 05

CENTRAL DISTRICT (No. 3).

VERNON AND ASHCROFT MINING DIVISIONS.

(Note.—The Resident Mining Engineer for these Divisions having been seriously ill and having since died, P. B. Freeland has made the following reports on certain properties in the Divisions.)

VERNON MINING DIVISION.

Properties examined by Philip B. Freeland, District No. 4.

Queen Group. This group, consisting of the *Queen* and *St. Claire* claims, is situated about 8 miles north-west of Vernon, on the west side of Okanagan lake, and is owned by McIntyre & Mabee, of Penticton and Kelowna. A good wagon-road has been built to the foot of the hill on which the claims lie. Development-work consists of numerous open-cuts, several shallow shafts from 10 to 20 feet deep, and trenching. Nearly all the work has been done where there is an indication of pyrrhotite. Most of the mineralization occurs in a highly metamorphosed sedimentary which has been fractured by the intrusion of a porphyry dyke outcropping about half a mile to the south from the workings. A good deal of copper-carbonate stain can be seen in the fractures on the surface and at the bottom of the shafts and open-cuts small lenses of chalcopyrite occur. The general strike of the fractures is north-east and south-west and covers an area of about 1,500 feet square. A general assay gave a trace in gold and silver and 1.70 per cent. copper. The gangue was silica, epidote, and some calcite. Needs more surface development before capital can be interested.

Falcon. Very little can be said about the possibilities of this claim because the examination was made when there was 6 inches of snow on the ground. The situation of the claim, about 2 miles north-west of Vernon and within three-quarters of a mile from a wagon-road, renders transportation easy. A shaft which had been sunk 40 feet was half filled with water and the open-cuts with snow. In the shaft a quartz lead varying from 6 to 14 inches was developed, showing segregations of arsenical iron chiefly near the collar. The strike of the lead is north and south (mag.) and the dip about 20° to the west.

A sample taken across the lead 18 feet below the collar of the shaft gave a trace of gold and silver to the ton. Another sample of white quartz, slightly oxidized in the fractures, gave 0.12 oz. in gold and 0.08 oz. in silver to the ton. The arsenical iron, with very little quartz present, gave 0.82 oz. in gold and 0.70 oz. in silver to the ton. The results of these samples clearly show that the values are in the iron or its oxides, and the future of the claim rests on the possibility of developing more of this mineral. Open-cuts to the north showed a continuance of the quartz.

Monashee, Morning Sun, McIntyre Group. A gentleman named F. S. Munson formed the Progressive Mining Company, of Vernon, with the intention of selling stock to the people of Vernon and vicinity and developing the above claims, situated about 48 miles east of Vernon. Practically all those who were working in connection with the property were asked to take stock in the venture as part payment for their labour. Work commenced in the autumn and log cabins built for bunk and cooking purposes on the *Morning Sun* claim. After stripping a quartz lead from 4 to 10 feet wide for about 100 feet a crosscut tunnel was started 125 feet below the outcrop and driven 40 feet, at the time of examination, in a highly altered volcanic tuff, slightly mineralized with pyritohedrons of iron. A sample across the quartz lead in one place gave 0.59 oz. in gold and 0.80 oz. in silver to the ton. The volcanic tuff gave 0.02 oz. in gold and 0.10 oz. in silver.

On the *McIntyre* claim, which adjoins the *Morning Sun*, the old open-cuts and tunnels have been cleaned out. Samples from the open-cuts and lead in the tunnels averaged 0.06 oz. in gold and 0.20 oz. in silver, which shows them to be too low grade at present for operation.

The mouth of the main tunnel on the *Monashee* claim was cleaned out and retimbered. This tunnel was driven 375 feet on the lead many years ago. Samples taken on the south side of the fault, over 150 feet of quartz lead (crushed) averaging 1 foot in width, gave an average

of $7 in gold to the ton. Beyond the fault the lead seemed to be barren as far as development had gone. An old stamp-mill built to concentrate the ore many years ago was in a delapidated condition. Two feet of snow on the ground prohibited a proper examination and little can be said of the possible future of this venture.

White Elephant, Early Sun, Lora Bell, Hill Top.

These claims are situated about 2 miles from Okanagan lake, on the west side, above Ewing's Landing, and are owned by Archie Clarke, Mrs. Clarke, Mrs. Saunders, and L. L. Stewart, of Okanagan Centre and Vernon. The discovery of a quartz-outcrop about 50 feet wide, containing free gold and bismuth, by A. Clarke created a good deal of excitement in local circles. The surface was stripped and a shallow shaft about 7 feet deep and several open-cuts were excavated. In the shaft the quartz was crushed and oxidized in the fractures, showing occasional films of free gold and generally in contact with bismuth. Samples of the quartz carrying the free gold naturally gave very high results, but they were not a true average of possible tonnage. Two samples taken across the side of the shaft where the mineralization was heaviest gave about $16 in gold to the ton, which seems to be more reliable. An open-cut 20 feet to the south of the shaft uncovered a body of pyrrhotite which assayed only a trace in gold. Other open-cuts carried only low values.

The presence of free gold in the quartz makes the property quite attractive, but before installing any plant for treatment of this ore it should be remembered that the past history of the vicinity records high-grade quartz bearing free gold to be of a "pockety" nature, which makes it advisable to develop the ore-body extensively first. The vicinity of the outcrop was covered with a heavy wash, and with so little development done even the strike of the ore was problematical at the time of examination.

The country-rock, where seen, was badly weathered, but resembled granodiorite. On the highest part of the hill remnants of limestone were found and above the outcrop to the south-west some alkali-syenite float. The location of the claim is good and transportation, by gravity to Okanagan lake, easy. There is plenty of timber for all purposes, but water is scarce.

ASHCROFT MINING DIVISION.

Kanaka Placers.

Kanaka bar is situated on the Kanaka Indian Reserve on the Fraser river about 9 miles south of Lytton, on the Canadian Pacific Railway. On the west side of the river the railway cuts along the side of a high gravel-bank. About 100 feet below the track a good deal of gold was placered in 1840. In and above these old grounds new interest has been taken by D. McKinnon *et al.*, of Grand Forks and Vancouver. Near the bottom of the bank and also on a false bed-rock good colours were obtained by panning, also a considerable amount of black sand carrying gold. It is the intention of the owners to try and save the values by special concentration, because the gold seems to be too fine for the ordinary methods. There are several million yards of gravel in the bank, and if good enough values can be obtained per yard the venture may be profitable.

Chu Chua Coal Co.—Portal.

Chu Chua Coal Co.—Bunkers.

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LILLOOET DISTRICT.

LILLOOET MINING DIVISION.

Report by John Dunlop, Gold Commissioner.

I have the honour to submit the annual report on mining operations in the Lillooet Mining Division for the year ending December 31st, 1921.

Lode-mining in this Division being principally confined to the production of gold, I regret to report that the recovery of bullion during the past season has almost reached the vanishing-point. That disappointing statement in nowise detracts from the actual merits of the properties so operated and active, but emphasizes the continued unstable conditions and the inability of the gold-producing camp to continue production.

The *Pioneer* mine on Cadwallader creek, after being closed down about twelve months, was reopened by a Vancouver syndicate in the early part of the season. The work performed consisted of repairing tunnels and old workings and also the installation of a cyanide plant. Breakages in machinery and other unforeseen contingencies occurred at intervals, thus hindering the work and hampering the management.

At the *Lorne* mine, beyond work of an exploratory character and the extending of tunnels, no attempt was made to operate the stamp-mill on the premises.

At the *Wayside* and *Ida May* mines, and also the mineral locations on McGillivray creek, development-work was carried on and the veins extended, with a view to having those properties in a position favourable to successful operation when conditions improve.

During the past eighteen months considerable attention has been directed to the acquiring of placer-mining ground on the lower and upper reaches of Bridge river. On the former the work, consisting of wing-dams and sluicing, has been carried on with the object of testing the bed of the river. I understand that a company is formed to take over the greater part of the ground leased and to operate in a miner-like manner. So far the work done has been carefully directed.

Backed by English capital, the company owning the placer-mining leases in and around the Horseshoe Bend of the Bridge river has again resumed activity and has installed some of the latest mining machinery.

Office Statistics—Lillooet Mining Division.

Free miners' certificates issued	206
Mineral claims recorded	142
Certificates of work recorded	170
Placer-mining claims recorded and rerecorded	3
Placer-mining leases in force	59
Certificates of work, "Placer-mining Act"	54
Transfers and agreements recorded	77
Leases granted, forfeited mineral claims	1

Revenue.

Free miners' certificates	$1,066 25
Mining receipts, general	3,716 45
Tax, Crown-granted mineral claims	558 50
Crown grants, mineral claims, fees	225 00
Total	$5,566 20

CLINTON MINING DIVISION.

REPORT BY G. MILBURN, GOLD COMMISSIONER.

I have the honour to submit the annual report of the Clinton Mining Division for the year ending December 31st, 1921.

A development of great interest, not only to the district but possibly of great importance to the whole Province, is the prospect of the ground in the neighbourhood of E. J. Taylor's *Windfall* mineral claim, situate in the Taseko or Whitewater River country, turning out to be as good as the claim in question is said to be. There are apparently three routes by which this territory may be reached. From Lillooet over snow-clad summits is the shortest way, but I believe it is almost, if not quite, impracticable until late in the spring. Two locators travelled this route back to Lillooet late in December and as a result of their work recorded some fifty claims.

The Public Works Department sent J. K. More, Road Engineer, to locate a road in continuation of one already built to a point within about 60 miles of the discovery. He succeeded in doing so and found that a wagon-road with reasonable grades can be made at a comparatively moderate cost. This road would be a continuation of the Chilcotin main road, which passes through Williams Lake, on the Pacific Great Eastern Railway. In addition to the two routes mentioned is another from Clinton by good roads through Kelly lake, Canoe creek, and Gang Ranch to a point some miles beyond Big creek, and thence by an existing pack-trail to the scene of the discovery.

I am informed that the valley in which the discovery was made by Mr. Taylor is some 25 miles long. Mr. More brought out samples of sand containing fine gold.

During the year of this report there have been about 150 mineral claims located in this portion of the Division and recorded in my office, most of them during the fall months. These recordings have been made in fair-sized blocks, the staking having been done by a few, acting as agents. About 100 more claims were staked in December and recorded in January, 1922.

The situation in regard to claims covering hydromagnesite-deposits is nearly the same as it was when I reported last year. On quite a number of claims payment of $100 in lieu of work has been recorded to keep the claims alive. These properties are unquestionably valuable and there is little doubt that a market will develop in time. Hydromagnesite is being shipped by way of the Pacific Great Eastern Railway at the siding at Exeter from the *White Empress* mineral claim, formerly owned by A. E. Carew-Gibson, but now in the hands of the Pacific Roofing Company, Limited, of Vancouver. Several large motor-trucks are being used to carry the commodity from the claim to the railway, and while I have no exact information I am informed that several car-loads have been shipped.

A large field of hydromagnesite lying north from Exeter for several miles as far as Township 12, Lillooet District, formerly staked in the year 1919, was restaked during June and the whole property now stands in the name of Kenneth Munro, of Vancouver. So far as I know, no work has been done on these claims, either to investigate or by way of assessment-work. I am informed that negotiations, which are likely to be successful, for the sale of the hydromagnesite-deposit on the Dougherty Ranch at Clinton are now going on. The Meadow Lake deposit referred to in previous reports, which is the largest and best discovered in this district, has not yet developed into a shipping proposition as was thought possible last year.

A good deal of activity has arisen in connection with the soda lakes and deposits. The Lillooet Soda Syndicate, Limited, with headquarters at Vancouver, employed a number of men under the direction of F. Silverton on their properties, the *Goodenough* and *Last Chance* Crown-granted claims, situate about 12 miles west from Chasm, north of Clinton. A considerable quantity of carbonate of soda was shipped, a ready market being found for all that can be extracted. It is expected that a much larger quantity will be shipped next year and preparations have been made to this end. Motor-trucks are employed to take the soda from the claims to the railway, a fair road being available for this traffic.

The Soda Mining and Products Company, Limited, holding a large number of Crown-granted mineral claims and ground covered by mineral records, has done little in the way of development or extraction this year, but, I understand, intend to put in a modern calciner when ready.

There are various other soda lakes chiefly held by the locators, who are awaiting an opportunity to turn them over to concerns who are looking for industrial chemicals. The

summer season was again dry and many of the lakes which were well covered with water now have soda crystals exposed.

A large deposit of gypsum near the railway at Kelly lake has been opened up by Leonard Burley and associates, and several car-loads have been sacked and shipped to Vancouver, in the vicinity of which place a market is being worked up among the agriculturists. The deposit in question is so situated that the gypsum can be put on the cars with the minimum of handling. A chute has been erected to a platform alongside the railway and the loading is done from that.

The magnesium-sulphate deposit has not been worked during the year, neither has any of that collected and stored on the shores of the lake been shipped. I am uninformed as to the intentions of the owners for the future. While a very considerable quantity has been taken from the lake, there is a vast amount still available and awaiting an accessible market.

Some prospecting has been carried on on the claims lying about 6 miles south of Clinton and assessment-work was recorded on a few of them. The results of the season's work do not appear to have been very encouraging, as attention was diverted to ground farther south in the vicinity of Maiden creek. There several claims were located and assays of the samples taken are regarded very optimistically by the owners, the returns showing the presence of gold, silver, and copper.

Placer-mining is much about the same as it has been for several years past. Although there are fewer placer claims in existence, the quantity of gold recovered is a little greater than last year, a total of approximately 250 oz. having been sent to the assay office. The whole of this gold was taken from the First North fork of Watson Bar creek. One placer claim was staked on Churn creek, but the locator informed me that the gold-bearing sands were very limited in area and the best he hoped for was a return a little exceeding wages.

One creek lease was issued during the year and there are now two mining leases on record. Both of these are on a branch of Watson Bar creek and I understand the auriferous gravels are fairly well covered. Development-work on both these leases has been done during the season and it is hoped gold will be recovered shortly.

The year was a fairly busy one in the matter of office records. Exactly twice as many mineral claims were recorded as compared with the year before. Certificates of work issued were a few less, but the number of bills of sale, etc., were very much greater. Revenue from free miners' certificates and from mining receipts (general) exceeded collections for the year 1920.

OFFICE STATISTICS—CLINTON MINING DIVISION.

Free miners' certificates	101
Mineral claims recorded	238
Certificates of work issued	101
Placer claims recorded	4
Placer claims rerecorded	3
Placer leases in existence	2
Placer leases issued	1
Bills of sale, etc.	90

Revenue.

Free miners' certificates	$ 396 75
Mining receipts (general)	2,931 15
Total	$3,327 90

YALE DISTRICT.

NICOLA MINING DIVISON.

REPORT BY J. A. MURCHISON, MINING RECORDER.

I have the honour to submit herewith the annual report and office statisitcs of the Nicola Mining Division for the year ending December 31st, 1921.

Owing to the high cost of labour and the low price of metals, mining has not been vigorously prosecuted during the year 1921.

OFFICE STATISTICS—NICOLA MINING DIVISION.

Mineral claims recorded	43
Placer claims recorded	20
Free miners' certificates	128
Certificates of work	106
Bills of sale	10

VERNON MINING DIVISION.

REPORT BY L. NORRIS, GOLD COMMISSIONER.

I have the honour to submit the following annual report on the mining industry in the Vernon Mining Division for the year 1921:—

On March 30th last Archie Clark staked the *White Elephant* mineral claim on Shorts creek, on the west side of Okanagan lake, about 9 miles south-west from Okanagan Landing. Some very rich specimens of free-milling gold have been taken from it. It is now, I understand, under bond to American capitalists.

Some new claims were staked on Monashee mountain last summer. There was also considerable activity in a quiet way among the mines there.

On Cherry creek twelve placer leases were staked by the Cherry Creek Hydraulic, Limited. This company now controls fourteen leases on this creek. The construction of the ditch is pretty well advanced and the company will be able to commence sluicing as soon as the spring opens up.

There were also four placer leases staked on Whiteman creek by E. A. Keeley, H. T. Ross, S. Mercer, and H. A. Street, of Vancouver.

OFFICE STATISTICS—VERNON MINING DIVISION.

Free miners' certificates	188
Mineral claims recorded	54
Certificates of work	8
Bills of sale	9
Conveyances	6
Placer leases	16

YALE MINING DIVISION.

REPORT BY H. BEECH, MINING RECORDER.

I have the honour to submit the annual mining report and office statistics for the year ending December 31st, 1921.

PLACER-MINING.

Placer claims on Siwash creek which were abandoned have again been restaked and active work has been carried on throughout the summer.

Lode-mining.

Development-work has proceeded steadily on most of the claims in the Yale Mining Division.

The *Emancipation* mine, bonded by the Liberator Mining Company, has opened up a large body of high-grade milling-ore above the old workings, and the company has employed from twenty to thirty men the last year putting in a cable-tramway and ore-bunkers. A stamp-mill is in course of erection.

The Spidel Peak properties in the same locality have been bonded and are being thoroughly prospected.

The *Eureka* group, 10 miles west of Hope, is being put into shape to prove the known ore-bodies.

The *Gisby* group at Keefers is being developed by the British Columbia Silica and Talc Company, of Vancouver, and will soon be in shape for production.

Office Statistics—Yale Mining Division.

Free miners' certificates issued	148
Mineral claims recorded	75
Certificates of work issued	181
Bills of sale recorded	12

ASHCROFT MINING DIVISION.

Report by J. S. Alexander, Mining Recorder.

I have the honour to submit my annual report as Mining Recorder for the Ashcroft Mining Division for the year 1921.

A number of placer claims were staked in the vicinity of Spences Bridge, where a strike was made in March, and work is still progressing on these claims.

The annual assessment-work has been done on the majority of all the old claims.

A comprehensive report on mining conditions in this Division will, I understand, be made by the Resident Mining Engineer.

Office Statistics—Ashcroft Mining Division.

Mineral claims recorded	94
Certificates of work issued	89
Certificates of improvements	8
Placer claims recorded	20
Placer-mining leases granted	2
Powers of attorney recorded (placer)	10
Bills of sale recorded (placer)	6
Lay-overs granted (placer)	1
Leaves of absence granted (placer)	1

KAMLOOPS MINING DIVISION.

Report by E. Fisher, Gold Commissioner.

I have the honour to submit my annual report for the Kamloops Mining Division for the year ending December 31st, 1921.

With the exception of assessment-work, which has been well kept up, quartz-mining in this Division during the past year has again been practically at a standstill. The most important work has been done on the *Windpass* group, where a shaft 7 by 16 feet has been sunk to a depth of about 40 feet and a drift 7 by 10 feet run for a distance of 16 feet. The vein here is a replacement of the diorite country-rock by magnetite, feldspar, and a little calcite, with some free gold and gold telluride. The width of the vein has not yet been determined, as it is wider

than the present workings and will require crosscutting to prove the full width. Some 1,800 lb. of this ore shipped to the Trail smelter carried gold at the rate of $438 a ton. The vein looks strong and contains 3 to 4 feet of good ore, besides the low-grade stuff. Between 300 and 400 sacks of second-grade ore are at present being brought to Chu Chua for shipment to Trail; the values are practically all in gold, most of which is free. The difficulty at present with this property is its accessibility, but if the values continue as at present it would warrant the expenditure of the necessary capital to overcome this difficulty.

No mining has been done at the *Iron Mask* during the past year, but a force of men have been kept employed completing the overhauling of equipment and the installation of the pipe-line from the Thompson river to the mine. This latter, I understand, is now complete and working satisfactorily, and with an improvement in the price of copper it is expected that the mine will shortly be in active operation again.

There has been considerable activity in placer-mining, leases being taken up on 3-Mile creek, Louis creek, and North Thompson river. On 3-Mile creek the Jumbo Mining Company has built a flume from the dam 850 feet long by 2 by 1, with 200 feet of sluice-boxes. The company ground-sluiced a cut 100 feet long, 25 feet wide, and 7 feet deep, also sank a shaft 4 by 6 feet, 46 feet deep, and timbered it, but owing to water it was unable with the present equipment to reach bed-rock, but work will be continued next season.

Milton Roper has driven a tunnel 55 by 4 by 6 feet, sunk several prospect-holes, and made several open-cuts on the Roper lease. Mr. Cardon put in a line of sluice-boxes on his lease and with Mr. Roper sluiced a big open-cut. This showed good values in fine gold and work will be resumed in the spring.

MacKay & Boggs worked all the summer on their property, and on the Stevens & Mayville property a shaft was sunk and timbered 14 feet and several prospect-holes dug, in which good values were found. As a result of the showings on this creek it is anticipated there will be greater activity next season.

On Louis creek J. W. Smith built a considerable amount of flume in preparation for next season's work.

OFFICE STATISTICS—KAMLOOPS MINING DIVISION.

Free miners' certificates	344
Mineral claims recorded	76
Placer claims recorded	6
Placer leases	13
Certificates of work (mineral)	183
Certificates of work (placer)	6
Bills of sale	28
Powers of attorney	15
Leaves of absence	11
Permissions to relocate	2
Mining receipts	$4,025.55

WESTERN DISTRICT (No. 6).

Report by Wm. M. Brewer, Resident Engineer.

INTRODUCTION.

The Western Mineral Survey District (No. 6) includes the seven most westerly Mining Divisions in the Province. These are Alberni, Clayoquot, Quatsino, Victoria, and Nanaimo on Vancouver and adjacent islands, and New Westminster and Vancouver on the Mainland.

As an introductory to the following annual report on the Western Mineral Survey District, the writer desires to express his appreciation for the several courtesies that have been extended to him during the past year, and to heartily thank each and every one of the men connected with the mining industry in his district with whom he has had business, as well as those from other districts whom he has met, for their many kindnesses and the ready assistance that have been universally extended to him.

TALKS TO PROSPECTORS.

Early in the past year the Hon. Wm. Sloan, Minister of Mines, decided on inaugurating a policy heretofore not followed in any of the Provinces in the Dominion or in any of the mining centres in the United States. In this connection he instructed the Resident Mining Engineer in each of the Mineral Survey Districts to prepare and deliver a course of addresses or talks to prospectors of an instructive and informative character on the rudiments of chemistry, mineralogy, and geology. The preparation and delivery of such talks was undertaken by the writer after having completed the annual report on his district. Between February 21st and April 22nd four talks were given in Victoria, Duncan, Nanaimo, and Alberni, and one in Cumberland, which were well received by audiences that increased in numbers.

After completing this work and owing to the serious illness of R. W. Thomson, Resident Engineer of the Central District, the writer was requested to visit Hope to carry out some examinations with regard to aiding prospectors in that section by constructing necessary roads and trails under the "Mines Development Act, 1916."

"IRON-ORE SUPPLY ACT, 1919."

From May 15th to June 1st mining, sacking, and shipping of about 22 tons of magnetite ore for experimental purposes from the *Lake* mine, on the west coast of Texada island, to Thos. Summerson & Sons, Limited, of Darlington, England, was carried out in accordance with the provisions of the "Iron-ore Supply Act, 1919." The shipment was made on the steamship "Spectator," which sailed from Vancouver about June 1st. Later in the year a smaller shipment of similar ore was made to W. Perrins, of Nanaimo.

EXAMINATION OF MINERAL CLAIMS.

Twenty-six groups of mineral claims were examined during the past year, reports on which will be found later in this report. The carrying-out of this work necessitated visiting Tatlayoko lake and Klinaklini river, in the northerly part of the Nanaimo Mining Division, on the Mainland; Texada, Lasqueti, and Quadra islands, Jump river, and upper Campbell lake, in the Nanaimo Mining Division; Indian and Stawamus rivers and Nelson island, in the Vancouver Mining Division; Koksilah and Leech rivers and Cowichan lake, in the Victoria Mining Division; also points on the west coast of Vancouver island, in the Alberni, Clayoquot, and Quatsino Mining Divisions.

DISASTERS.

During 1921 this district has been visited by two serious disasters, both of which occurred at the Britannia Mining and Smelting Company's beach camp, which, in addition to the depressed state of the copper market, are responsible for the fact that the production from the metalliferous mines of this district has been comparatively small. The production has been confined entirely to the shipment of 47,385 tons of copper ore from the *Britannia* mine, being partly the contents

of a storage-dump at Britannia Beach which had to be removed from the site selected for the new concentrating plant. This ore produced about 646 oz. gold, 7,943 oz. of silver, and nearly 1,411,376 lb. copper

The first disaster occurred on March 19th, 1921, when the concentrating-mill of the *Britannia* mine at Britannia Beach, which had a capacity to treat 2,100 tons of ore daily, was totally destroyed by fire. The second disaster, in which thirty-eight persons lost their lives and about twenty others were seriously injured, occurred on the night of October 28th, 1921, when more than half of the buildings in the town at Britannia Beach were destroyed by the high water in Britannia creek, which washed away a fill on the narrow-gauge electric railway connecting the beach with the 2,200-foot level in the *Britannia* mine, thereby causing a flood in the town.

These disasters are the most serious to visit any mining centre in the Province since 1915, when a snow and rock slide destroyed the old Britannia mining camp on the mountain-side at the foot of the Mammoth bluff on the 1,000-foot level at an elevation of about 3,200 feet above sea-level, which was the site of the first camp established by the original stakers of the *Jane* and *Fairview* mineral claims of the *Britannia* group in 1898. It is gratifying to state that the contracts are let for rebuilding the concentrating-mill with increased capacity, and that the town will also be rebuilt with as little delay as possible on a new site on higher ground well removed from the possibility of again suffering damage from a similar cause.

COAL-MINING.

The most important mineral industry on Vancouver island is coal-mining, which under normal conditions employs between 4,000 and 5,000 employees. During 1921 the gross production of coal on Vancouver island was 1,625,931 tons, compared with 1,698,254 tons during 1920, or a decrease of 72,323 tons.

All of the collieries are in the Nanaimo Mining Division, and these are the chief support of practically all of the towns on the east coast of Vancouver island northerly from Chemainus, which includes Ladysmith, Granby (formerly known as Cassidy), Extension, South Wellington, Nanaimo, Wellington, Lantzville, and Cumberland.

As the conditions of the collieries are reported on in detail in the Annual Report of the Minister of Mines by the staff of the Chief Inspector of Mines under the heading "Inspection of Mines," it is not the intention of the writer of this report to devote any space to such details, as they are outside of his own duties, but there are features regarding the coal-mining industry which do come within his proper sphere, and these are discussed as follows:—

The names of the companies, with the collieries they were actively operating during 1921, are as follows:—

Canadian Collieries (Dunsmuir), Limited, operating the Wellington-Extension Colliery, comprising Nos. 1, 2, and 3 mines at Extension and No. 5 mine at South Wellington, also Nos. 4, 5, and 7 mines, Comox Collieries, at Cumberland.

Western Fuel Corporation of Canada, a reorganization of the Canadian Western Fuel Company, operating the No. 1 or Esplanade shaft, Protection island, Harewood, Reserve, and Wakesiah mines, Nanaimo.

Granby Consolidated Mining, Smelting, and Power Company, operating the Granby No. 1 Colliery, Cassidy.

Nanoose Collieries Company, Limited, operating the Lantzville mine, about 10 miles northerly from Nanaimo.

King & Foster, lessees of the Old Wellington Colliery, operating the Adit mine at Wellington.

There is another company in the Nanaimo coalfield, known as the East Wellington Coal Company, which started to open the East Wellington Colliery in 1920, about 500 yards west from the old Jingle Pot mine, worked out during 1919, but this company has not yet commenced to produce any coal.

During 1921 the conditions of the coal-mining industry on Vancouver island have not been normal, because the demand for coal has been quite irregular and so much less than during the past few years that the miners in nearly all of the collieries have not been working full time, and some of the mines have been closed down for a considerable portion of the past year.

The importation of fuel-oil for locomotives and steam-vessels has, of course, had a very serious effect on the market for steam-coal; the effect has not only been the direct one of reducing the demand for coal, but the indirect one of sending hundreds of thousands of dollars

out of Canada in payment for oil and exchange. In an endeavour to offset these very undesirable conditions, experts are working to determine the possibility of substituting powdered coal in place of oil.

The demand for bunker coal for coal-burning steamers has been light owing to the general depressed condition of trade the world over, resulting in a decrease in the number of vessels carrying freight, and has also afforded those an opportunity to fill their bunkers, as well as some of the freight-holds, with sufficient Welsh and other coal at the foreign ports of clearance to furnish fuel for the entire voyage, outward and inward bound.

Another cause for the decreased demand for coal is the fact that a number of vessels have brought several thousands of tons of Welsh coal to San Francisco and Honolulu as ballast from ports in England and have loaded lumber for return cargo.

One of the most noticeable features relating to the coal-mining industry on Vancouver island is the harmonious relationship that exists between the operators and their employees, for which both classes are to be heartily congratulated.

Improvements in Coal-washer Plants.—Another is the lively interest that is at present being taken by the operators in improving the washery plants, and the methods that are to-day being employed to clean coal are not only of the most modern description, but in the experiments in oil-flotation that have been carried on during the past year by the Western Fuel Corporation of Canada; the Canadian Collieries (Dunsmuir), Limited.; and the Granby Consolidated Mining, Smelting, and Power Company, these companies are taking the lead on the North American continent.

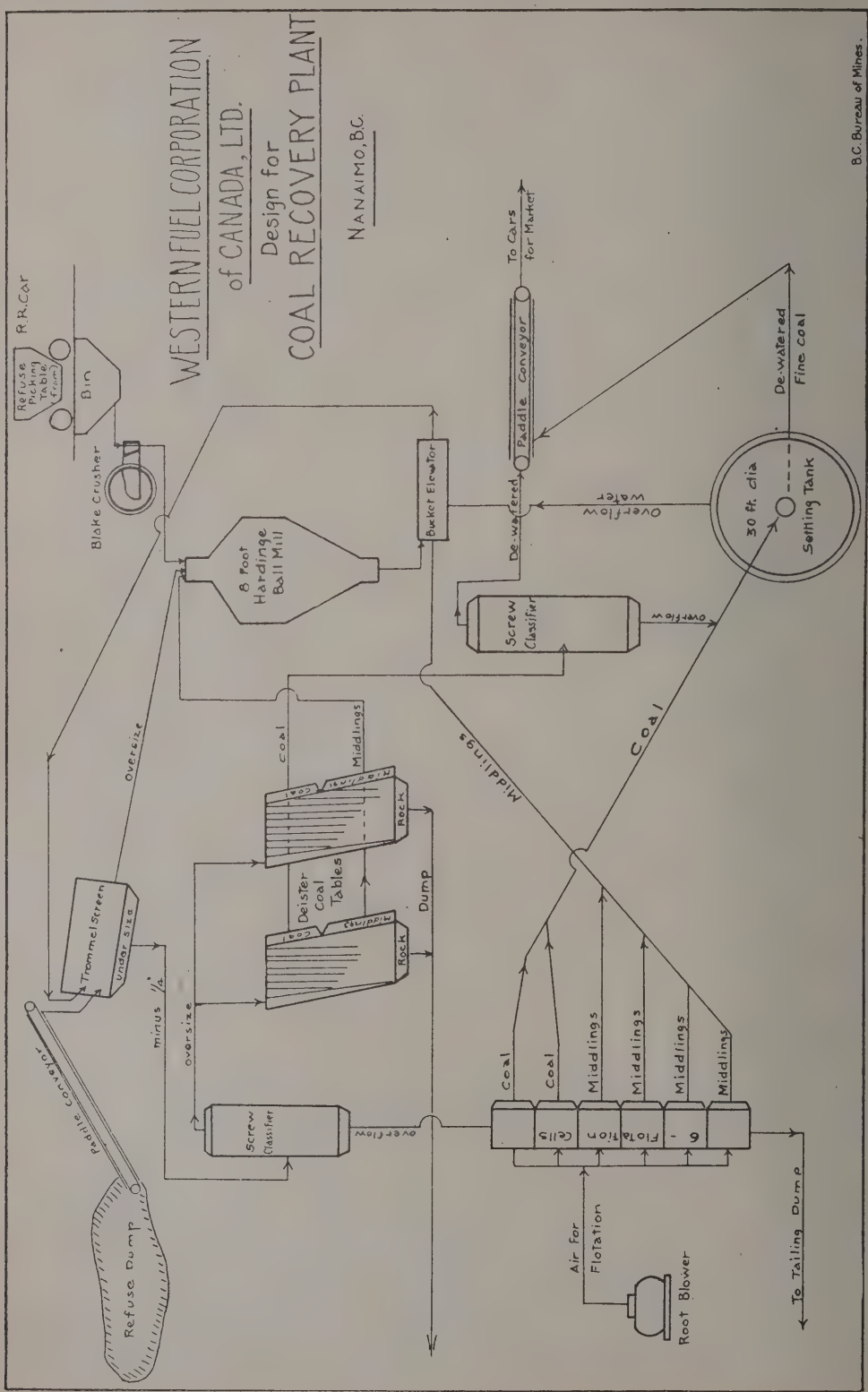
Western Fuel Corporation of Canada.—In this connection the following brief description of the improvements being made in the washery plant of the Western Fuel Corporation of Canada at Nanaimo is interesting: The company assembles all of the coal produced at its various mines at a central point on the water-front in Nanaimo, where the bunkers, wharves, car-ferry slip, blacksmith, machine, and carpenter shops are located in the vicinity of No. 1 shaft, Esplanade, up which is hoisted the coal produced in that mine. The product from the Reserve, Harewood, and Wakesiah mines is transported to the central station on the water-front over the company's system of private railway-tracks.

John Hunt, the general manager of the Western Fuel Corporation of Canada, is entitled to much credit for the enterprise he has shown by authorizing the construction of the new washery plant, and especially for taking the lead in utilizing the oil-flotation process in the plant on a commercial scale. There are two main objects in making the improvements, and practically applying the science of concentration as employed in the metalliferous mines to coal-mining. These are: First, to produce the cleanest coal possible for the market; and, second, to make a product of commercial value from material that has heretofore been considered waste. The improvements as designed for the proposed new plant indicate an important stride along the road of progress. In the past coal-mines generally have been equipped with washery plants in which the Robinson cone washers were used, and it has been customary on Vancouver island to treat the residue from the washer by passing it through jigs and over concentrating-tables in order to clean the smaller sizes of coal, such as pea and nut, but no serious effort has heretofore been made to further concentrate the slack and sludge, which have gone to waste-dumps or been deposited in the sea.

The plant which is under construction and the machinery for which is all purchased is expected to be in operation during the coming summer; it is designed by P. E. Peterson, one of the pioneer operators in concentrating by the oil-flotation method and inventor of the Peterson cell, which has to a great extent supplanted the Callow and other cells heretofore used in oil-flotation.

The flow-sheet as illustrated in the accompanying plan shows an absence of intricate construction not often found in connection with such works; indeed, the whole scheme is so simple that two men, or one man and a boy, on a shift will comprise all the labour necessary to operate the plant. This plant will be used in addition to the present washery, in which jigs have been discarded and four Deister coal-concentrating tables substituted.

A reference to the flow-sheet shows the two sources from which the product to be treated is drawn—one a refuse-dump on the upper left-hand corner of the plan; the other, refuse from the picking-tables in the present washery, delivered on the upper floor of the new plant in railway-cars, as shown on the upper right-hand corner of the plan. The material in the refuse-dumps is


WESTERN FUEL CORPORATION
of CANADA, LTD.
Design for
COAL RECOVERY PLANT
NANAIMO, B.C.
B.C. Bureau of Mines.
R.R. Car
Refuse picking Table (from)
Bin
Blake Crusher
8 Foot Hardinge Ball Mill
Bucket Elevator
Paddle Conveyor
To Cars for Market
De-watered
Overflow water
30 ft. dia
Settling Tank
De-watered Fine coal
Screw Classifier
Overflow
Coal
Middlings
Oversize
Trommel Screen
Undersize
minus ½"
Deister Coal Tables
Coal
Middlings
Rock
Dump
Screw Classifier
Overflow
Coal
Coal
Middlings
Middlings
Middlings
Middlings
6 - Flotation cells
Air for Flotation
Root Blower
Refuse Dump
Portable Conveyor
To Tailing Dump

carried into the plant by a paddle-conveyor, which delivers it on to a trommel-screen; the oversize passes from the trommel by gravity down a launder to an 8-foot Hardinge ball-mill; the undersize passes by gravity into a screw-classifier, the oversize from which passes by gravity on to two Diester coal-concentrating tables. These tables produce three products—viz., coal, middlings, and rock. The undersize or overflow from the screw-classifier is carried by gravity to a battery of six Peterson flotation-cells; the product from two of these cells is clean coal and from the other four middlings. The coal from the flotation-cells passes by gravity into a settling-tank 30 feet in diameter, from which the dewatered fine coal passes to a paddle-conveyor, by which it is carried to railway-cars ready for market. The middlings from the flotation-cells pass by gravity along a launder to a bucket elevator near the ball-mill, into which the overflow water from the settling-tank is also discharged. The bucket elevator discharges into a launder, along which the material passes by gravity on to the trommel-screen already mentioned and is subjected to the same series of treatments as has just been described. The coal and middlings concentrates made on the Deister tables are carried by gravity to a second screw-classifier near the settling-tank, so that the overflow from the classifier can discharge into the settling-tank, while the fine dewatered coal is carried to the paddle-conveyor, which delivers it into railway-cars ready for market. The refuse brought in railway-cars from the picking-tables below the main tipple is dumped into a bin below the track and from there goes into a Blake crusher, which discharges into the Hardinge ball-mill.

One of the advantages to be gained by the treatment described of the slack or refuse is that the coal can be more thoroughly picked over on the picking-tables and a cleaner product made, because practically all of the carbon in the refuse is later saved in the concentrating-washer. Heretofore many lumps of coal with which was associated only a small percentage of rock were allowed to pass to market, but in the future all of such material will be discarded at the picking-tables to be treated by concentration.

Canadian Collieries (Dunsmuir), Limited—Comox Mines.—The washery plant for the Comox mines is at Union Bay, where the product from those mines is assembled for water shipment from the large bunkers at the wharves. The coal is transported from the mines over the company's private railway, a distance of about 14 miles. The washery is fully equipped with Robinson cone coal-washers and ten Masco coal-concentrating tables. The company has during the past year been experimenting with oil-flotation, and forwarded some car-load lots to the Mineral Separation Company at San Francisco, as well as putting in a small experimental laboratory plant at Union Bay, but has not as yet adopted the treatment on a commercial scale.

The following is a brief description of the improvements made on the surface during 1921:—

Extensive repairs were carried out on the flume of the hydro-electric plant. The large area covered by the underground operations at No. 4 mine, Comox, has for some time been taxing the ventilating facilities at that mine. In October of the present year operations were started to install a second fan, and with the new installation completed, the Nos. 1 and 2 slopes of this mine will be ventilated each by a separate ventilation unit.

The present unit consists of a Sullivan double-inlet fan, having a capacity of 180,000 cubic feet a minute, against a 6-inch water-gauge. The fan is electrically driven by a 350-horse-power induction-motor, 2,200 volts, speed 250 r.p.m., directly connected to the fan-shaft. This fan will in future ventilate the workings of No. 2 slope, while the new installation will take care of the workings of No. 1 slope.

The new unit is situated just west of the travelling-way, and in order to make room for the installation extensive changes were made in the railway-yard, which not only increased the capacity, but added much to the efficiency and appearance of the whole plant.

The new fan plant consists of a 108-inch double-inlet reversible Sirocco fan on concrete base with half-housing in steel. The fan will be connected to the mine by a reinforced-concrete tunnel fully equipped with explosion-doors. The fan will run at 250 r.p.m. and will deliver 200,000 cubic feet of air a minute, against a 6-inch water-gauge.

The primary power unit will be a 500-horse-power synchronous motor, 2,200 volts, equipped with a self-starting unit; the motor will run at 500 r.p.m., connected to the main shaft of the fan through a jack-shaft with silent chain-drive in two sections, each 15 inches wide, the ratio between the motor and fan speed being 2 to 1; the distance between centres of drives will be 106 inches.

In addition to the primary drive, there will be carried as an emergency unit a 350-horse-power induction-motor, speed 250 r.p.m., which can be connected by a coupling direct to the main fan-shaft. This induction-motor is a duplicate of the motor now in use on the present ventilation units at No. 4 mine and also at Nos. 5 and 6 mines, and can in emergencies be used on any one of the three units.

The power unit will be housed in a fire-proof concrete building with asbestos roofing, and, in all, makes one of the most complete and efficient ventilating plants in the Province.

Diamond-drilling.—During the year diamond-drilling was continuously prosecuted in the Tsable and Cumberland fields. Much of the time three drills were in operation; one was withdrawn in October and transferred to the Ladysmith district.

In the Tsable River district, to the 115,220 feet of roads made to facilitate movement of drills and 15,051 feet of holes drilled during 1919 and 1920, there was added in 1921 12,900 feet of roads and 6,991.6 feet of drilling; all of this drilling gave a 2-inch core. In the Cumberland district 12,300 feet of roads were made to facilitate movement of the drills and 3,370 feet of holes drilled; making a total for the year in the Comox field of 25,200 feet of roads made and 10,361 feet of holes drilled.

The operations of the Canadian Collieries (Dunsmuir), Limited, in the Extension and South Wellington fields, Nanaimo Mining Division, have been carried on satisfactorily during 1921. The production of coal from the company's mines in those fields shows an increase during the past year of 10,253 tons.

Systematic prospecting with diamond-drills has been carried on in two sections of the coalfield—Haslam flat, Oyster district, a few miles southerly from Cassidy; also near the Nanaimo river, Cranberry district. This prospecting is on the Wellington coal-seam, the deepest of the three seams in the Nanaimo field.

Three boreholes have been put down on Haslam flat; two of these are 1,500 feet deep and the third is 900 feet. Good coal of workable thickness has been exposed, but the prospecting has not yet been sufficient to warrant opening a new mine.

About 300 feet of drilling has been done near the Nanaimo river, in the Cranberry district, on the line of the company's private railway from Extension to Ladysmith.

At South Wellington No. 5 mine two rock tunnels are being driven to the south off the Main slope a distance of 2,500 feet, which are expected to develop a large area of good coal.

At Ladysmith, where all of the coal produced at the Wellington-Extension and South Wellington Collieries is assembled for shipment, improvements have been made in the washery plant which have resulted in the recovery of a larger percentage of pea coal than in the past. These improvements comprise the erection of a shaker screen, automatic water-feed, and settling-tank as auxiliaries to the three Masco coal-concentrating tables in use for some time past.

Granby No. 1 Colliery, Cassidy.—During 1921 R. R. Wilson, who has been superintendent for the Granby Company at the colliery since 1919, resigned, and was succeeded by E. E. Campbell, who had been connected with the Granby Company at Phoenix since 1900 and was mine manager for several years. Under the management of R. R. Wilson the colliery at Cassidy was placed on a shipping basis, the production being increased from 72,885 tons in 1919 to 268,962 tons in 1921.

The title of the Granby Company to the coal rights under areas of land near Cassidy acquired in 1917 from original settlers on the Esquimalt & Nanaimo Railway Company's land belt was confirmed by the Privy Council in November last. This decision settles the litigation that has been pending since 1917, when the Granby Company purchased the property on which it has opened the coal-mine known as the Granby No. 1 Colliery and built a model town for its employees, with all modern conveniences, recreation-grounds, club-house, shower-bath house, change-rooms, etc.

During 1921 this colliery produced 268,962 tons of coal, as compared with 201,589 tons in 1920. The coal-mine is operated primarily to supply coal for manufacture into coke in the battery of by-product coke-ovens at Anyox for fuel for the company's copper blast-furnaces at that point, about 600 miles up the Mainland Coast from the Granby No. 1 Colliery.

During 1921 experiments have been carried on with a view to improving the methods of further cleaning the sludge, which at present passes off from the Diester-Overstrom tables in the washery plant as waste. It was at this colliery that the first successful attempt to apply the oil-flotation method of concentration to coal was made by P. E. Peterson in the spring of 1921.

The object desired to be attained was to reduce the content of ash in the slack coal used for the manufacture of coke to that point where it would not exceed 15 per cent. ash as it came from the washer, and it was found to be possible by oil-flotation to clean such material, after it had been ground fine, so thoroughly that a product carrying as low as 15 per cent. ash was saved, the proportion being sufficiently great to result in profitable operations on a commercial basis.

Old Wellington Colliery.—King & Foster, the lessees of this coal-mine, have worked continuously during 1921 on a limited scale, owing chiefly to lack of capital to branch out. The The lessees are successfully attempting to reopen the mine and pay for the operations from the income received from the product. Most of the work has been the drawing of old pillars, and they are succeeding in this attempt, the product being gradually increased to a point where it is beginning to be of importance.

The coal is of excellent quality. This is the original mine operated so successfully by Hon. Robert Dunsmuir before he built the Esquimalt & Nanaimo Railway, and when the bulk of the production was shipped from Departure bay to San Francisco by sea.

Pacific Coast Coal Mines, Ltd.—This company not only did not operate during 1921, but all of its property, including the Morden coal-mine near South Wellington and the Suquash coal-mine in the north-eastern portion of Vancouver island, as well as all equipment, was sold at Sheriff's sale and purchased by Montreal interests.

Nanoose Collieries Co., Ltd.—This company increased its production from the Lantzville mine, about 10 miles north-westerly from Nanaimo, from 32,500 tons of coal in 1920 to 55,942 tons in 1921. The company ships all of its output by water, and is considerably handicapped during stormy weather, because there is practically no shelter for vessels at the company's wharf.

East Wellington Colliery.—This colliery has not yet become a producer of coal. John John, the mine manager, has been occupied in completing the erection of the necessary buildings and installing the machinery on the surface, in order to be prepared to take advantage of better market conditions by having the mine in shape to commence production when such is warranted by the demand. The coal from this colliery when production begins will be shipped over the same railway-track as was the case when the old Jingle Pot mine was being operated, from which the coal was delivered to scows and vessels from the wharf not far from the old gaol on the Nanaimo water-front.

METALLIFEROUS MINING.

The concentrating-mill at Britannia was closed down on November 30th, 1920, and the mill at the *Indian Chief* mine, Sidney inlet, west coast of Vancouver island, was also closed down about the same time, while production at the *Marble Bay* mine, Texada island, ceased during 1920. These were the only producing metalliferous mines in the Western Mineral Survey District, and no others were added to the list during 1921, consequently when considered from a production basis the condition of the metalliferous mineral industry in this district during 1921 has been discouraging. On the other hand, however, when the results from development-work and prospecting that have been carried on during the year in various sections of the district are considered, there is every reason for a feeling of optimism to prevail with regard to the future condition of the industry.

During 1921 several mining engineers were in the district searching for prospects that might be attractive to their principals.

Prospecting.—The Consolidated Mining and Smelting Company of Canada has had parties of mining engineers engaged in field-work prospecting the section of Vancouver island known as the Esquimalt & Nanaimo Railway Belt, but no results from that work have been made public. This examination was made by the smelting company at the request of the Esquimalt & Nanaimo Railway Company, and in accordance with an agreement entered into by the railway company with the Honourable Minister of Mines, in an effort to consummate some arrangements by which the present dual control of the minerals in the Railway Belt can be eliminated. At present the Esquimalt & Nanaimo Railway Company is the owner of all coal and base metals occurring within the boundaries of the Railway Belt, while the title to any precious metals occurring within the belt is in the Crown.

The prospecting-work done by these parties has been confined almost entirely to the Nanaimo Mining Division.

In the Quatsino Mining Division, Wm. Clancy, manager of the *Old Sport* mine, owned by the Consolidated Mining and Smelting Company of Canada, has been occupying much time in prospecting and making a detailed geological survey of the mountainous country in the vicinity of the *Old Sport* mine in an endeavour to determine more fully than is at present known the extent, structure, and geologic conditions of several ore-deposits that occur in the north-westerly portion of Vancouver island.

Development-work on the *Old Sport* has been suspended awaiting the erection of a concentrating plant on that property, which construction was a part of the programme proposed to be carried out in 1920, but was postponed owing to the high costs for building and difficulties in procuring machinery for the plant, as well as the demoralized condition of the copper market.

Prospecting generally in the Western Mineral Survey District has been carried on in some sections with more energy than for some years past, but this work, so far as Vancouver island is concerned, has been principally confined to further search for gold-bearing quartz and ores in the neighbourhood of Kennedy lake and in the Beaufort range of mountains, on the westerly slopes, where veins of gold-bearing quartz were discovered about 1898, but under the conditions prevailing at that time were considered to be too narrow to permit of being worked on a commercial scale. On the Mainland portion of the Western District there has also been a tendency to confine prospecting to a search for gold rather than copper or silver ores; consequently the Fire Mountain section near the head of Harrison lake has received some attention from prospectors during 1921.

The Coast range on the Mainland is apparently becoming a more attractive field for prospectors than in the past. Several occurrences of fair-grade ore in the altered sedimentaries which are found as undestroyed roof-pendants intruded by the Coast Range granodiorite batholith have been discovered during the past two or three years. Most of these have been examined and some are reported on later in this report. One feature especially with regard to these deposits is worthy of mention. It is that they are almost universally found to occur at high altitudes and isolated. They are only found as the result of intensive prospecting on and near the summits of the mountains and usually close to or above the timber-line. Many of such deposits have been first discovered by energetic men who associate big-game hunting and trapping with prospecting.

ALBERNI MINING DIVISION.

There has been but little activity in mining in the Alberni Mining Division during 1921. The annual assessment-work has been generally done on the mineral claims not Crown-granted, but no serious attempt to extend development-work has been made. Mining engineers from San Francisco and other centres have examined several of the older mineral claims for their principals, but to date there has been no advice that any properties have been bonded.

During the past summer, E. F. Eastman, managing director of the Tacoma Steel Company, accompanied by E. Stephens, general superintendent, examined several iron-ore claims at and near Sechart, near the western channel of Barkley sound. These claims are all Crown-granted and owned by the Tacoma Steel Company. No results of the examination were made public. The claims were reported on in the Annual Report of the Minister of Mines for 1916.

The *Big I.* group of mineral claims on Big Interior mountain, at the head of Drinkwater river, 10 miles from the head of Great Central lake, which were bonded to the Consolidated Mining and Smelting Company of Canada in 1919, reverted to the original owners during 1921.

As reports have been published in the past Annual Reports of the Minister of Mines on the majority of the mineral claims in the Alberni Mining Division, it is unnecessary to repeat in this present report. For that reason the following two reports only are included. These are on groups of mineral claims which were examined during 1921, but have not been reported on for some years. These are the *W.W.W.* and the *Gretna Green* groups.

W.W.W. Group. This group of mineral claims is in the southern portion of Vancouver island, near the heads of China and Granite creeks and the Franklin river, which was brought into considerable prominence about 1899 by the discovery of quartz veins carrying good gold values, with much of the quartz showing particles of free gold visible to the naked eye. The *W.W.W.* group was more thoroughly prospected by the locators

than any other claims, and was eventually sold to Wm. Harris, of Spokane, one of the original owners in the *Le Roi* mine at Rossland. After operating for about two years work was stopped. Since then, except during a short period in 1908, the section has received no attention until about October, 1921. During 1920 the *W.W.W.* group was advertised at tax sale and was purchased by H. Davie, of Port Alberni, who in due course received title from the Government, and later sold to R. G. McLeod, of the McLeod-Slocan Mining Syndicate, Limited, Vancouver. The present owner proposes to reopen the old workings on the claims, extend the development-work, and operate on a commercial scale by erecting a small milling and concentrating plant.

Area and Title.—The *W.W.W.* group contains four Crown-granted mineral claims known as the *W.W.W. Nos. 1, 2, 3,* and *4,* comprising approximately 200 acres. A bond has recently been taken by R. G. McLeod, of Vancouver, from H. Davie, of Port Alberni.

Geography.—The *W.W.W.* group of mineral claims is in the Alberni Mining Division near the headwaters of Franklin river, which has its source in the Beaufort range of mountains, no great distance from Mount Arrowsmith, the highest peak in the southern portion of Vancouver island. The Franklin river empties into the Alberni canal on the east side, about 10 miles southerly from Port Alberni, the head of navigation for ocean-going vessels. The *W.W.W.* group is reached by travelling an old pack-trail in an easterly direction from near the mouth of the Franklin river for a distance of about 12 miles.

Geology.—The *W.W.W.* group is in that portion of Vancouver island the geology of which is described in Memoir No. 13, Southern Vancouver Island, by Chas. H. Clapp, Canada Department of Mines, Geological Survey Branch, 1912. Clapp in his report merely refers to the section in which the *W.W.W.* group is situated, as follows: "A large number of claims have been staked on a group of deposits near the headwaters of Franklin river and China creek, in the Alberni, Dunsmuir, and Barkley districts. These claims were not visited, so that their character is not known. Some of them may be contact deposits, but it is probable that they are chiefly impregnated and partially replaced shear-zones."

On the map accompanying Clapp's report the section is shown as being made up of rocks classified as Saanich granodiorite and Vancouver volcanics, with the first named occurring along the east shore of Alberni canal, in the vicinity of the mouth of Franklin river, and extending south-easterly about 12 miles with the contact occurring between the Saanich granodiorite and the Vancouver volcanics at a point about 6 miles up the Franklin river. The area covered by the volcanics is apparently quite extensive, but undetermined.

The writer of this report is of the opinion that the country-rock surrounding the *W.W.W.* group of mineral claims belongs to the Vancouver Volcanic series.

Ore-deposits.—There is a well-defined vein-structure in a shear-zone on the *W.W.W.* group. The ore is deposited in fissures which have clean-cut walls, but vary considerably in width from a few inches up to 14 inches. There is gouge on each wall and the vein-filler is made up almost entirely of quartz mineralized with iron pyrite and some free gold.

There are apparently two fissures, or possibly a linked-vein system in a shear-zone in which the links or lenses of mineralized quartz occur *en echelon,* with a structure somewhat similar to the shingles on the roof of a building. The strike of each of the fissures is S. 10° W. (mag.) and dip about 45° towards east.

In the upper adit as shown at present the length of the pay-shoot in the vein, of sufficient width to be considered workable, or exceeding 12 inches, is approximately 30 feet, but the fissure is continuous, though in places much narrower for 72 feet, the full length of the adit. At the face the values in gold are high, with some indications that the vein may widen out.

In the lower adit, which is 117 feet long, the pay-shoot in the workable part of the vein is about 40 feet long, but the fissure is continuous the entire length of the adit. There is a stope 33 feet long and about 20 feet high from the lower adit, also a winze of unknown depth, being full of water. The stope is about 60 feet from the portal of the adit and extends to within 16 feet of the face. The winze is sunk across the adit from the stope.

Some shipments of high-grade ore were packed out on horses, and which were made about 1900 to the Tacoma smelter, were presumably mined from the stope and winze in the lower adit, as well as from the drift-adit.

Samples and Assays.—Three samples were taken during the examination, which assayed as follows:—No. 1, from 6 feet from the face and up to the face of the lower adit, quartz about 6 inches wide, assayed: Gold, 0.24 oz.; silver, 0.16 oz.; copper, trace. No 2, from face of upper

adit, quartz 6 inches wide, assayed: Gold, 5 oz.; silver, 4.5 oz.; copper, 0.3 per cent. No. 3, selected samples of decomposed quartz from near the portal of the upper adit above the roof, assayed: Gold, 14.84 oz.; silver, 8 oz.; copper, trace.

The above-mentioned samples do not represent the average value of the vein in either adit, as no attempt to determine the average value was made; the places from which the samples were taken were selected at haphazard, except No. 3 sample, which was selected to show the values carried by the decomposed quartz at that particular point.

Following is a list of assays made from samples taken by the owner at various times and is reproduced here merely as an illustration:—

Copies of Assays made on Samples of Ore from W.W.W. Group.—P. W. Thomas, Provincial Assayer: Decomposed ore—Gold, 6.42 oz., $128.40; silver, 6.04 oz., $3.92; total, $132.32. Arsenical ore—Gold, 4.90 oz., $98; silver, 3.72 oz., $2.42; total, $100.42.

West Assay Works, October 14th, 1921: Gold, 4.65 oz., $93; silver, 6.34 oz., $4.57; total, $97.57.

Consolidated Mining and Smelting Company: Gold, 2.90 oz.; silver, 2.07 oz.; lead, 4.09 oz.

Tacoma smelter: Gold, 5.58 oz.; silver, 4.20 oz.; total, $111.60.

J. R. Williams, Provincial Assayer and Chemist, 621 Pender Street West, Vancouver, October 27th, 1921: Sample No. 1, gold, 21.16 oz., $423.20. Sample No. 2, gold, 7.92 oz., $148.40. Sample No. 3, gold, 10.44 oz., $208.80; silver, 6.96 oz., $4.87; total, $213.67.

J. R. Williams, October 31st, 1921: Amalgamation test—Average of three assays, $261.75; amount of free gold, $120.

Development-work.—The development-work on the *W.W.W.* group consists of two adits, each one driven as a drift following the strike of the vein system from the surface outcrops in the side of a mountain at an elevation of about 2,000 feet above sea-level. The lower of these adits is 117 feet long. At a point about 60 feet from the portal a stope has been opened, which is 33 feet long; there is also a winze of unknown depth sunk on the opposite side of the adit from the stope. The upper adit is 72 feet long.

There is an ample supply of water near by the mine-workings for power and concentrating purposes, which can be developed at a comparatively low cost.

Gretna Green Group.

This group of mineral claims, at the head of Henderson lake, is in the interior of Vancouver island from the west coast, and is not described in either of the Summary Reports, 1919 or 1920, Geological Survey, Canada, by V. Dolmage in his notes on "Barkley Sound" and "West Coast, Vancouver Island, between Barkley and Quatsino Sounds," and, so far as the writer knows, no detailed examination of the geology of the section has been made, nor have prospectors explored the interior any considerable distance from the shores of Barkley sound or Alberni canal. The large number of islands, length and irregularity of the shore-line, has offered advantageous opportunities to explore the shore-lines, while the dense underbrush, almost impenetrable forests, and rugged mountains, which usually rise almost perpendicularly from the shores, have retarded prospecting to any considerable distance into the interior. For these reasons there is a very large area in that section of the interior from the west coast of Vancouver island, extending in a north-westerly direction from Uchucklesit harbour near the entrance to Alberni canal to near Quatsino sound, that has never been explored by white men.

Considerable interest was shown about 1898 and 1899 by prospectors along the shores of Uchucklesit harbour, Snug basin, and Henderson lake, but the rapids between the harbour and lake presented a transportation problem which to a prospector, or even a company with limited capital, appeared almost insurmountable; consequently, during the past twenty-two years but little attention has been paid to that section.

Outcroppings of high-grade copper ore in contact-metamorphic deposits occur in several places near the shore-line of Uchucklesit harbour, Snug basin, and near the head of Henderson lake, one of which is on the *Gretna Green* group, but no really extensive systematic prospecting with the view of attempting serious development-work has been done, principally for the reason that the occurrences of ore were usually in kidneys and so irregular as to discourage operators.

Area and Title.—The *Gretna Green* group contains four mineral claims owned by George Brown, of Vancouver.

Geography.—The *Gretna Green* group of mineral claims is about a mile northerly from the fish-hatchery at the head of Henderson lake, which is about 12 miles long and empties into

Tidewater Copper Co.—Mine Buildings.

Emancipation Mine—Liberator Mining Co.

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Uchucklesit harbour through a series of rapids. Uchucklesit harbour is an arm of Barkley sound on its north side at the entrance to Alberni canal. Uchucklesit harbour, in connection with Snug cove at the north-westerly end of the harbour, affords one of the best and most commodious shelters for vessels of any draught on the west coast of Vancouver island.

Geology.—On the *Gretna Green* group there occurs a highly metamorphosed zone with a contact between limestone and a rock resembling diorite, associated with which contact there occurs masses of such contact-metamorphic rocks as garnet and epidote. In the belt of limestone there are several cliffs which rise above the normal level to elevations of from 100 to several hundred feet. These cliffs are usually quite precipitous, and at the contact with the igneous rock there are usually narrow canyons and watercourses resulting from erosion. The contacts are generally well defined, but in some instances the metamorphism has been so pronounced that the point of actual contact is hidden and difficult to determine with certainty.

Ore-deposits.—At a point about 100 feet higher elevation than Henderson lake, near the easterly bank of a creek, there is a prominent cliff of limestone, and apparently near the contact between it and an igneous rock resembling diorite there occurs an outcropping of exceedingly high-grade copper-sulphide ore, more or less associated with contact-metamorphic minerals. The ore appears to have replaced limestone, as the best ore is more often found in kidneys and bunches, surrounded on all sides by limestone almost crystallized to marble, rather than in association with the contact-metamorphic minerals, but it is noticeable that unless some garnet or epidote occurs near by there is as a rule no copper ore.

The condition of the ore-deposit and surrounding country-rock is such that, although the ore is exceptionally high grade, the indications appear to show that the quantity is so limited, its occurrence so erratic and irregular, as to suggest that, while further and systematic prospecting may result in exposing more favourable conditions, it must be regarded in the light of a possibility rather than a probability, but is an absolute necessity before any value can be estimated for the *Gretna Green* group of claims.

Samples and Assay.—One selected sample was taken from about 100 lb. of ore, all that was exposed, which assayed: Gold, 1.4 oz.; silver, 1.5 oz.; copper, 17.8 per cent.

Development-work.—No work other than some prospect-holes could be found, and Nature's handiwork was more noticeable than man's in excavating these holes.

CLAYOQUOT MINING DIVISION.

During the summer of 1920 a geological survey of the west coast of Vancouver island between Barkley and Quatsino sounds was made by V. Dolmage, and his summary report is published in Summary Report, 1920, Part A, Canada Department of Mines, Geological Survey. In the beginning of Dolmage's report, under the heading "General Description," he says: "The coast between Barkley and Quatsino sounds, consisting, as it does, of three large sounds with numerous inlets and islands, among which may be found many excellent harbours, is the most irregular part of the west coast of Vancouver island. It differs markedly from the rest of the west coast, which is so straight and regular that it offers almost no protection to coasting vessels. The shore, in general, is bold and rocky and sparsely timbered with stunted conifers; but in a few places, such as Estevan point and in the vicinity of Wreck and Long bays, extensive sandy and bouldery beaches are developed at the base of low perpendicular cliffs. This part of the island is thinly populated, chiefly by Indians of a most primitive type; a few white people are engaged in fishing and canning and to a slight extent in mining, lumbering, and ranching. The only means of communication is by the Canadian Pacific Railway steamer 'Princess Maquinna,' which makes the round trip from Victoria to Quatsino three times each month."

Under the heading "Geology" he gives the following table:—

"The following table of formations summarizes the geology of this part of Vancouver island:—

"TABLE OF FORMATIONS.

Age.	Formation.	Character.
Recent		Stream and river gravels.
	"Unconformity.	
Pleistocene	Wreck Bay formation	Stratified sands, gravels, and clays.
Lower Cretaceous or Upper Jurassic	Cretaceous sediments	Sandstone and conglomerate.
Jurassic	Coast Range batholith	Granodiorite, quartz diorite, diorite.
	"Intrusive.	
Triassic	Vancouver group	Andesites, tuffs, tufaceous argillites, and limestones."

As this Summary Report can be obtained on application to the British Columbia Branch of the Geological Survey at 510, Pacific Building, Vancouver, it is not necessary to quote further extracts at this time. Reports on all of the mineral claims described by Dolmage have been published from time to time in the Annual Reports of the Minister of Mines, and as there is practically no dissimilarity in the descriptions it is not considered essential to repeat the report here.

During a portion of the month of September and early part of October the writer visited the west coast of Vancouver island, and amongst the claims examined are the *You*, *White*, and *Wanderer* groups of mineral claims, reports on which follow:—

You Group. This group of mineral claims is in the most rugged part of the Beaufort range of mountains, near the southern boundary of Strathcona Park and not far from the centre of Vancouver island. The district has received a good deal of attention by prospectors since 1899, when Joe Drinkwater crossed the island from Bedwell river to Great Central Lake, discovered copper-sulphide ore, and staked the *Big Interior* group of mineral claims. The occurrence of persistent but narrow quartz veins carrying values in gold and silver higher than is usually found on Vancouver island made the district attractive to prospectors. The lack of transportation facilities, comparatively inaccessible situation, low grade of the copper ores, and expense of prospecting and developing these low-grade but extensive bodies have retarded the progress of the mining endeavor in this section of Vancouver island.

No reports have been made by the Geological Survey of Canada relative to the geology of that part of the interior of Vancouver island in which the *You* group of mineral claims is situated. Victor Dolmage, in the Summary Report, Canada Department of Mines, Geological Survey for 1918, described the geology of Quatsino sound; in the Summary Report for 1919 he described the geology of Barkley sound; and in the Summary Report for 1920 he describes the geology of the west coast of Vancouver island between Barkley and Quatsino sounds.

Area and Title.—The *You* group contains four mineral claims and occupies an area of approximately 200 acres. The owner is J. B. Woodworth, of Thorley Park, Vancouver.

Geography.—The *You* group of mineral claims is near the centre of Vancouver island, in the Clayoquot Mining Division, on the westerly slope of the Beaufort range of mountains at an elevation of about 3,000 feet above sea-level. The property can be reached either from Alberni via Great Central lake and Bear pass or from Clayoquot by launch to the head of Bedwell sound, from which point it is about 13 miles to the claims over a wagon-road for a distance of 9 miles and a pack-trail the remainder. The route from Clayoquot is usually travelled and is the only route by which supplies or machinery can be transported. By the Great Central Lake route men must pack on their backs across one of the highest and most rugged mountain ranges on

Vancouver island, and in addition to this drawback the route is usually closed by the deep snow in the mountains for at least six months of the year.

The mountain-peaks in the Beaufort range in the vicinity of the *You* group reach elevations exceeding 6,000 feet above sea-level. This range may be termed the backbone of Vancouver island. It is made up of mountain-peaks, the summits of many of which are so sharp as to have the appearance of saw-teeth, while the slopes are for the most part precipitous, but in many instances terraces and basins have been excavated near the summits by glacial action, and several isolated glaciers are observable from nearly any point near the head of Bedwell river. One of the largest of these glaciers is near Della lake at an elevation of about 4,300 feet above sea-level on the easterly slope of the Beaufort range.

Geology.—Dr. Dolmage, in the Summary Report for 1920, refers to the occurrence of gold-bearing quartz veins in the Kennedy (formerly Elk) River section near the head of Kennedy lake, about 24 miles almost due south of the *You* group of mineral claims, where the geology is so very similar to that surrounding the *You* group that his remarks are copied in part as follows:—

"Gold in small quantities is found in the beach placers of Wreck bay and in small quartz veins cutting the Vancouver volcanics in the vicinity of Elk river, which flows into the East arm of Kennedy lake. Gold-bearing quartz veins were known as early as 1898 to occur in the Elk River section. These veins occur in the andesite of the Vancouver group in close vicinity of large intrusions of a very fine-grained dark-grey diorite, with which the veins are thought to be genetically connected. The andesites are somewhat sheared, but, except in the immediate vicinity of the intrusions of diorite and the veins, are comparatively fresh. Where altered they consist largely of chlorite and secondary quartz, and near the contacts of the veins contain considerable pyrite. The diorite was not observed except in the vicinity of Elk river and the northern extremities of Kennedy lake, and showed—by the fact that it formed dykes in the granodiorite of the Coast Range batholith—that it belongs either to an exceedingly late phase of the batholith period or to some subsequent period of intrusion. No evidence could be found to determine which. The veins are all small, that on the *Rose Marie* being the largest. They have a common and persistent attitude, striking about N. 45° E. and dipping north-west 70° to 80°. They consist of coarsely crystalline quartz containing many vugs and small grains of pyrite, galena, zinc-blende, tetrahedrite, and gold which is sometimes visible.

"These gold-bearing quartz veins constitute a type of mineral-deposit which is different from any previously described in connection with the west coast of Vancouver island, and although they have not yet proved to be of commercial importance, they do in places carry good gold values and may with further prospecting and developing turn out to be valuable. From an examination of the Wreck Bay formation and of the intervening topography, it seems almost certain that the gold content of those gravels originated in the quartz veins of this district."

Ore-deposits.—On the *You* group of mineral claims there occurs a gold-bearing quartz vein in a fissure in a shear-zone in the Vancouver volcanics. The fissure is about 3 feet wide between very persistent, well-defined walls, with several inches of gouge separating each wall from the material which fills the fissure. The vein-filler is made up of quartz from 6 to 9 inches wide, some breccia, and gouge. The quartz is mineralized with iron pyrite, galena, zinc-blende, tetrahedrite, and gold, which often occurs free and visible to the naked eye.

The fissure is exposed in a narrow gulch, the effects of erosion, for a vertical height of about 500 feet above the trail, where an adit is driven along the strike of the vein in a north-easterly direction. The dip of the vein is practically vertical. Owing to the quantity of water flowing down the gulch no close examination could be made of the vein above the adit on the trail. The fissure, with similar filling, has been traced down the mountain-side for a distance of about 500 feet below the trail, where it has been exposed in open-cuts made at intervals.

Samples and Assays.—Four samples were taken from the adit, which assayed as follows:—No. 1, general sample from dump: Gold, 2.92 oz.; silver, 2.6 oz.; copper, 0.5 per cent. No. 2, from across 8 inches quartz 24 feet from portal: Gold, 3.56 oz.; silver, 3.4 oz.; copper, 0.2 per cent. No. 3, from across 8 inches quartz 36 feet from portal: Gold, 0.92 oz.; silver, 0.8 oz.; copper, *nil.* No. 4, from across 4 inches quartz near face of adit: Gold, trace; silver, trace; copper, *nil.*

Development-work.—The development-work on the *You* group of mineral claims consists of several open-cuts and on adit driven 78 feet as a drift along the strike of a quartz vein. The backs above the adit level rise very steeply, so that within a comparatively short distance

they will reach several hundred feet and expose a considerable tonnage of ore. Owing to the regularity of the walls of the fissure, the friable character of the vein-filler, and width, it is possible to mine the ore at a low cost.

The facilities for milling and concentrating could hardly be excelled, for the reason that Bedwell river can be developed to furnish all the water-power necessary to drive all machinery, as well as for concentrating purposes. Considered from a commercial standpoint, there is a good chance for Woodworth's operations to result satisfactorily, provided the high gold values in the quartz are persistent and he carries on operations economically as an individual concern free from the usual excessive overhead charges of most companies.

White Group.

This group of mineral claims was described in the Annual Report of the Minister of Mines for 1919, page 198, but as further work has been done since then, the group was again examined by the writer on September 28th, 1921. The *White* group is on Tofino creek or, as it was formerly named, Deer creek, which empties into the head of Tofino inlet, which is the southernmost arm of Clayoquot sound. Tofino inlet penetrates the coast of Vancouver island in a north-easterly direction for about 12 miles, the entrance being separated from the Pacific ocean by a narrow peninsula, on the ocean side of which is Long beach, that has derived its name from the extensive sandy beach that stretches along the ocean shore for several miles and suggests a promising site for a popular summer resort.

About 6 miles from its head, Tofino inlet is divided into two arms, the westerly one being about 3 miles long, to the mouth of Tranquille creek, while the easterly or main arm, which extends to the mouth of Tofino creek, is about 6 miles long. The two arms are separated by a narrow mountainous peninsula, an extension of the high precipitous mountain range that forms the divide between Tofino and Tranquille creeks. The mountain range was a much-favoured field for prospectors about 1898, when several groups of mineral claims were located, some of which have since been Crown-granted, but none have been developed to any great extent and all of them are still held by the original locators.

The mountains south-easterly from Tofino creek, which form the divide between it and Kennedy Lake and river, were also much favoured by prospectors about 1898, when several groups of mineral claims were staked. Most of these are in good standing to-day and are still held by the original locators.

The exceptionally high-grade copper-sulphide ores found outcropping on the surface appealed to the prospectors of that time, but lack of transportation from the mountains to the sea-coast, distances varying from 1 to 3 or 4 miles, together with the fact that all of the ore-deposits belong to the contact-metamorphic type, in which the ore occurs in irregular lenses, have retarded the progress of mining development.

Attention is here called to this section of the west coast of Vancouver island in this report because it appears to offer one of the most attractive fields for the prospector on the island, and its possibilities are very promising.

Area and Title.—The *White* group contains the *White*, *Norman*, *Walton*, *Dunlop*, and *Alpha* mineral claims, covering an area of approximately 250 acres. The group is owned by Duncan McMillan, of Victoria, and Wm. Walton, of Clayoquot.

Geography.—The *White* group is about 120 miles, as the crow flies, north-westerly from Victoria, but under present transportation facilities it is necessary to travel considerably farther, as the Canadian Pacific Railway Company's west coast steamer must be taken to Tofino village, near the entrance to Clayoquot sound, where transfer must be made to a launch to travel from the village to the head of Tofino inlet, about 22 miles distant. There is an excellent trail about 1½ miles long from the head of the inlet up Tofino creek, on the westerly side, to the *White* group, which is at an elevation of about 2,500 feet above sea-level.

Geology.—The country-rock on the *White* group appears to be chiefly granodiorite and diorite, but there are also rocks which belong to the Vancouver group of volcanic rocks, with interbedded beds of limestone similar to the country-rock classified by Dolmage as being observed by him in the Kennedy lake, south-easterly from the *White* group, and Bedwell sound and other points north-westerly from the group. There is a wide zone of this character of rock which can be traced in a north-westerly direction from Clayoquot arm of Kennedy lake to Tahsis canal, Nootka sound.

On the *White* group there are evidences of intrusions in the limestones of a rock similar to diorite, which have so intensely metamorphosed the limestone as to alter it to rocks containing garnet, epidote, pyroxene, quartz, tremolite, and actinolite. These contact-metamorphic rocks cover quite a large area on the *White* group, on a bench near the cabin, and have obliterated the definite line of the contact between the limestone and igneous rocks.

Ore-deposits.—There is much difficulty in determining the structure and extent of the ore-deposit on the *White* group, for the reason that there are several lenticular occurrences of high-grade chalcopyrite ore scattered over about an acre or more of a bench at an elevation of about 2,500 feet at the foot of a high mountain. This ore is closely associated with a belt of contact-metamorphic rocks containing garnet, epidote, quartz, some tremolite, pyroxene, and actinolite. The ore is found under the roots of trees and in many shallow holes sunk for prospecting-work. Apparently the ore is not in-place on the bench, but has possibly fallen from a fissure in the precipitous mountain-side in a northerly direction from the bench or terrace, and which overlooks it. Erosion has cut a channel between the vertical walls of the fissure, which is about 5 feet wide, striking in a true north-westerly direction. No solid ore is found in either of two adits driven into the mountain-side—one in the face of the fissure; the other about 25 feet lower elevation, driven close to the north-easterly wall, but to one side in order to avoid the stream of water that is continuously pouring over the face of the fissure. Contact-metamorphic rock is exposed in both of the adits, indicating the possibility of exposing ore at any time.

When it is considered that the mountain mentioned forms the comparatively narrow divide between Tofino and Tranquille creeks, also that on the Tranquille Creek slope copper-sulphide ore occurs in contact-metamorphic type of deposits striking north-westerly, it would appear to be advisable to prospect in that direction to determine whether there is any relationship between the occurrences of ore on the *White* group and those on the Tranquille Creek slope.

Development-work.—Since the *White* group was examined in 1919 there have been two adits driven into the mountain-side—one in the fissure, where falling water interfered with the work; the other at a lower elevation alongside of the fissure, so as to avoid the stream of water that flows between the walls during most of the year. The first-named adit is 15 feet long under cover, with an open-cut approach 10 feet long; the last-named adit is about 15 feet long.

Wanderer Group. This group of two mineral claims, owned by L. C. Grant, of Tofino, is specially mentioned in Dolmage's summary report as being an illustration of gold-bearing quartz veins which constitute a type of mineral-deposit different from any previously described in connection with the west coast of Vancouver island. The group was visited by the writer on September 24th, 1921, in order to examine development-work recently done. In the Annual Report of the Minister of Mines for 1918, page 262, there is a full description of this group; consequently such will not be repeated here.

Development-work.—The new development-work consists of two short drift-adits in addition to open-cuts and stripping, by which the quartz vein is exposed for several hundred feet along its strike. The upper of the two adits is 10 feet long under cover, with an open-cut approach in solid rock 14 feet long; the lower adit is also 10 feet long under cover, but the open-cut approach made in solid rock is not as long as at the upper opening.

Samples and Assays.—Two samples taken from the vein in September last assayed: No. 1, gold, 0.10 oz.; silver, 0.4 oz. No. 2, gold, 0.20 oz.; silver, 0.06 oz. Samples taken by the writer in 1918 assayed: No. 1, gold, 0.32 oz.; silver, 0.4 oz. No. 2, gold, 0.64 oz.; silver, 0.8 oz.

While the quartz vein maintains its continuity with persistence, it remains very narrow, averaging only about 5 inches wide. On the other hand, its vertical extent up the mountain-side appears to be upward of 200 feet. It is possible that the width will increase in the vein above the elevation of the adits mentioned, in which event, if operations were carried on by a thoroughly experienced mining and expert millman, they might produce satisfactory results.

QUATSINO MINING DIVISION.

The mining industry in the Quatsino Mining Division has shown but little progress during 1921. The annual assessment-work has been done on mineral claims that have not been Crown-granted and some prospecting-work has been done by a few prospectors, chiefly those who reside near Holberg, at the head of the West arm of Quatsino sound, but there has been no new work of importance done.

Old Sport Group.

Work on this group of mineral claims, which was suspended in 1920 to await the erection of a concentrating-mill, has not been resumed, but it is expected that the Coast Copper Company, which is controlled by the Consolidated Mining and Smelting Company of Canada, will during the coming year build the proposed concentrating-mill and put the mine on a producing basis. In the meantime Wm. Clancy, the manager, and his assistant have been making a detailed geological survey of that section of the Quatsino Mining Division, in order, if possible, to determine the extent, structure, and relationship (if any) which the several outcroppings of copper-sulphide ore occurring in the district bear to each other. This work is in line with the prospecting-work that has been done by the engineers of the Consolidated Company in other portions of Vancouver island. It is said to be preliminary to the establishment of a copper-smelting plant on the Coast in the near future.

NANAIMO MINING DIVISION.

Placer-leases.

During 1921 there has been quite a revival in activity relative to securing placer-mining leases in the Nanaimo Mining Division, on the northernmost part of the coast of Vancouver island. Ten leases have been granted by the Gold Commissioner during the past year and several applications for leases made recently are pending. The ten leases granted are for areas in Townships 23, 24, 25, and 19, near Cape Sutil, a short distance westerly from the mouth of the Nahwitti river. The leases applied for are for areas in the vicinity of Fisherman bay, a few miles easterly from Cape Scott, the extreme north-westerly point on Vancouver island.

Ever since 1899, when placer gold was discovered associated with the black sand on the beach at Wreck bay, in the Clayoquot Mining Division, on the west coast of Vancouver island, also near Cape Sutil (then known as Cape Comerell), there have been intermittent efforts made by a few prospectors to create an excitement in favour of placer-mining along the beaches at several points on the west and north coasts of the island.

Several years ago some of the settlers at Cape Scott succeeded in securing small quantities of placer gold from the beach sands near Fisherman bay. The beach near the mouth of the Nahwitti river, as well as near Cape Sutil, was also repeatedly prospected, and small quantities of gold recovered at points where intensive concentration by wave-action has taken place. Whenever operations were attempted from the standpoint of a commercial proposition in the past they have invariably failed. The excuse generally made for these failures has been inability to save the fine flaky gold by using the ordinary methods.

It would appear that there have been two good reasons to account for these failures. The first is the fact that landings can only be made at irregular and infrequent intervals at the points referred to, which are on the open coast exposed to all winds and storms of the Pacific ocean. This causes expensive delays occasioned by loss of time. The second is the same reason why operations were abandoned at Wreck bay years ago, because the average quantity of gold in the black sand was too small to be extracted on a commercial scale, except where intensive concentration by wave-action had taken place, and such occurrences are very pockety, badly scattered, difficult to find, and after being worked over the first time are worked out.

Of course, it is possible that further systematic and thorough prospecting may result in the discovery of the source of the gold, but even then the gold-bearing quartz would have to carry sufficient value and occur in great enough extent to permit of mining operations being carried on successfully. It is hardly likely that any such discovery will be made at this late date, after many prospectors have expended energy and time searching for such source during the past twenty years, although, of course, as already stated, there is a possibility.

In the Nanaimo Mining Division the development of several prospects with promising possibilities has been continued during 1921, but the number of prospectors who make a business of exploring new sections in the mountain ranges in search of occurrences of minerals of economic value has been quite limited. With the exception of the parties of mining engineers sent into the field by the Consolidated Mining and Smelting Company, already referred to in this report, and whose activities were mainly directed towards the Nanaimo Mining Division, the writer failed to meet many other prospectors in that Division during the past season.

Nearly all of the month of July was devoted by the writer to a visit to Tatlayoko Lake and Klinaklini River sections, on the Mainland, in the extreme northerly part of the Nanaimo Mining Division, which owing to the lack of any trails from the Coast from either head of Bute or Knight

inlets can only be reached at the present time by travelling into the Chilcotin country and crossing the low summit between Chilko and Tatlayoko lakes.

The chief point of interest in this part of the Nanaimo Mining Division is that within its boundaries the easterly contact between those granitic rocks and the sedimentaries of the interior can be traced. This fact is also referred to by Wm. Fleet Robertson, Provincial Mineralogist, in his report on the Tatlayoko Lake section, published in the Annual Report of the Minister of Mines for 1910, in which he also draws attention to the possibilities of the section as a promising field for productive mineral-deposits to occur.

The writer during his trip examined the property of the Tatlayoko Lake Gold Mining Company, Limited, near the foot of Tatlayoko lake. At the headwaters of the Klinaklini river he examined the iron-ore property of the Hæmatite Mining Company.

Later in the season a trip was made to Siwash creek, near the head of Powell lake, where the *Copper Bowl* group of mineral claims was examined. Near Olsen Landing on Powell lake the mineral claims owned by George Kennedy and Jack Howse were examined. The *Ophir* and *Shamrock* mineral claims near Powell lake, about 3 miles from the Powell River pulp-mill, were also examined on this trip.

It is interesting to find that the ore-deposits on the properties mentioned in the Powell Lake section on Siwash creek occur in a zone of metamorphosed sedimentary rocks, one of the roof-pendants as described by Chas. Camsell and other geologists as occurring as inclusions in the granodiorite batholith of the Coast range. The values carried by the ore range from traces to 0.42 oz. in gold, from trace to 43.2 oz. in silver, and from 0.5 to 1.3 per cent. in copper.

On Texada island development-work has been done during 1921, which has been examined during the past season. This work has been chiefly confined to the *Marble Bay* mine, the *Nancy Bell* and *Marjorie* groups, and work done by John D. Edwards on a group of mineral claims near Gillies bay, Texada island.

On Quadra island development-work during 1921 has been confined to that done on the *Wanderer* and *Prospector* mineral claims near Deep Water bay, which were examined in June last. Samples from these claims assayed: Gold, trace; silver, 1.8 oz.; copper, 19 per cent.; and gold, trace; silver, 1.8 oz.; copper, 15.5 per cent.

From June 23rd to 26th was occupied in examining the *Silver Leaf* and *Mountain Ash* mineral claims, owned by Thos. Service, of Cowichan Lake. These are on a small creek, one of the headwaters of the Jump river, which flows into the South fork of the Nanaimo river. The interesting feature about this property is the values carried by the ore, which occurs in a well-defined vein in a shear-zone. The samples from the *Silver Leaf* claim assayed: Gold, 0.32, 0.66, 0.2, and 0.2 oz.; silver, 2.2, 2, 1.2, and 0.4 oz.; copper, 14.5, 3.7, 4.7, and 11.2 per cent. Samples taken in October by the owners from the same claim, after some development-work had been done, assayed: Gold, 0.80, 0.66, and 0.86 oz.; silver, 1.6, 1, and 1.4 oz.; copper, 5.5, 5, and 5.1 per cent.

TATLAYOKO LAKE SECTION.

Tatlayoko Lake Gold Mining Co.

The following is a report on the *Tatlayoko* group of six Crown-granted mineral claims, situated at an elevation of about 5,000 feet above sea-level on the easterly side of the narrow valley formed by the East fork of the Homathko river, about 6 miles from the southerly end of Tatlayoko lake, after an examination made by the writer during July, 1921. The Tatlayoko Lake section of the Nanaimo Mining Division is in the northernmost portion of that Division on the Mainland on the Coast watershed and near the easterly boundary of the Coast Range granodiorite batholith. The section has received but little attention from prospectors in the past, chiefly for the reason that it is inaccessible from the Coast, and the only route by which it can be reached at present is via Pacific Great Eastern Railway to Williams Lake; thence by automobile or horse-drawn wagon via Alexis Creek to the northerly end of Tatlayoko lake, a distance of about 150 miles.

The geology of a large portion of this section of the Nanaimo Mining Division is favourable for the occurrence of productive mineral-deposits, and if the section were more easy of access it would doubtless prove an attractive field for prospectors. The geologic conditions are described later in this report under the head of "Geology."

The only reports so far published on this section of the Nanaimo Mining Division are those in the Annual Reports of the Minister of Mines for 1910 and 1916; the former by the Provincial Mineralogist and the latter by John D. Galloway, the then Assistant Mineralogist.

The ore-deposits so far found in the Tatlayoko Lake section carry values in gold, silver, antimony, and sometimes copper, the mineralization being made up of iron pyrites, arsenopyrite, and antimony sulphide, with possibly some free gold.

The section is a fairly easy one to prospect, because the rock-exposures are frequent and extensive, especially above timber-line, which is at an elevation of about 5,000 feet above sea-level.

Area and Title.—The *Tatlayoko* group contains the *Tatlayoko, Tyee, Copper Dyke, Copper Dyke Extension, Isaac T.*, and *Spokane* mineral claims, which cover an area of approximately 300 acres. The claims are all Crown-granted and owned by the Tatlayoko Lake Mining Company, Limited; secretary, Matthew Sutton, 515 Dominion Building, Vancouver.

Geography.—The Tatlayoko Lake section of the Nanaimo Mining Division includes the area drained by the Tatlayoko lake, Matthew and Finnie creeks, and other branches of the Homathko river, on the Mainland of British Columbia, in the northernmost portion of the Division. The Homathko river is made up of two branches, the east and west, which form a junction a few miles southerly from the outlet of Tatlayoko lake and flow into the head of Bute inlet, one of the longest inlets penetrating the Mainland coast. The East fork of the Homathko river is the outlet of Tatlayoko lake, while the West fork has its source several miles north-westerly of that lake, in the range of mountains which forms the Coast watershed.

Geology.—The geology of the Tatlayoko Lake section has never been studied in detail so far as known to the writer. The report of J. D. Galloway, in the Minister of Mines' Report for 1916, affords evidence that, although he was limited as to time, he paid considerable attention to the geologic formations during his visit, and the Provincial Mineralogist, in the Annual Report for 1910, also briefly describes the more prominent features of the geology.

The writer observed particularly that a well-defined contact-zone occurs on and near the *Tatlayoko* group of mineral claims, between the Coast Range granodiorite batholith and the sedimentary rocks of the Interior plateau, with the granitic rocks occurring as intrusions into the older sedimentaries, which have consequently been so highly metamorphosed and altered as to be almost unrecognizable. The country-rock is also intruded by innumerable igneous dykes. A bed of conglomerate which is exposed between the upper and lower adits of the mine-workings is especially noticeable, and is particularly referred to by Galloway as follows:—

"It is probably a portion of the basal member of the sedimentaries series which is well exposed on the eastern side of Tatlayoko lake and includes the argillites and quartzites seen on this property. These rocks have been provisionally classified as representatives of the upper portion of the Hazelton formation, and from fossil evidence are placed as being of Lower Cretaceous age."

Ore-deposits.—Owing to the fact that the mine-workings had not been cleared out since work was suspended in the autumn of 1920, and that the argillite country-rock on the hanging-wall, which is very talcose next to the ore-body, the talc in places being 2 feet wide, had caved in many places along the drift portion of the upper adit, it was somewhat difficult to take samples without causing caving.

There are at least two well-defined persistent fissures on the *Tyee* and *Tatlayoko* mineral claims. These occur in a shear-zone in the metamorphosed sedimentaries in the near proximity to the intrusive granitic rocks of the batholith, and in the underground workings the upper or main vein in places is shown to occur at the contact of granitic and altered sedimentary rocks, with granite forming the foot-wall of the vein and argillite the hanging-wall. The general direction of the strike of the upper vein is N. 20° W. (mag.) and its dip at varying angles to the north-east.

There is a difference in elevation of about 150 feet between the upper or main vein and the lower, narrower vein. The strike of the lower vein is about N. 50° W. (mag.) and its dip, although in the same direction as that of the upper vein, is at a somewhat flatter angle.

The numerous dykes which outcrop on the surface do not appear to have interfered with the vein, except in one instance, where at the face of the upper adit, 367 feet from the portal, there occurs a dyke of apparently black igneous rock which cuts through the vein, so that in the face on July 15th, 1921, there was no ore exposed, but before reaching the dyke the vein is very persistent.

The portal of the upper adit is on the *Tyee* claim and is started in granite, and the adit is driven as a crosscut for 60 feet in a S. 50° E. (mag.) direction without intersecting the vein. At that point an upraise was made about 20 feet high and the vein exposed; consequently the

Morris's Camp, Chromium Creek, Nanaimo M.D.

Car-ferry "Canora" at Nannimo.

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course of the adit was changed to easterly for about 30 feet, where the vein was exposed within argillite walls, on the adit level dipping about 40° to the north-east. From that point to the face the adit is driven as a drift along the strike of the vein in a general S. 20° E. direction a distance of nearly 300 feet, most of which distance is on the *Tatlayoko* claim. The vein is persistent but variable in width the entire distance. The width of the vein-filler, including the talcose gouge with the quartz-crushed rock gangue, varies from a few inches to the maximum width of 90 inches mentioned in the report of the Provincial Mineralogist in 1910 at the then face of the adit, 110 feet from the portal.

The underground workings on the lower vein were not examined, because the work had not been extended since the examination by Galloway in 1916, and owing to caving the adit was considerably blocked up. The outcroppings of both of the veins occur on the southerly side of a gulch in a very steep mountain-side about 300 or more feet above timber-line and at an elevation of nearly 6,000 feet above sea-level.

Samples and Assays.—The writer took six samples from the upper drift, which assayed as follows: No. 1, from across 6 inches near face: Gold, 0.14 oz.; silver, 1.5 oz. No. 2, from across 8 inches, 50 feet from face: Gold, 0.06 oz.; silver, 0.6 oz. No. 3, from across 6 inches, 50 feet from No. 2: Gold, 0.6 oz.; silver, 1.2 oz. No. 4, front across 6 inches, 45 feet from No. 3: Gold, 0.76 oz.; silver, 5.5 oz. No. 5, from across 10 inches, 50 feet from No. 4: Gold, 0.36 oz.; silver, 3.7 oz. No. 6, selected samples for antimony: Gold, 0.12 oz.; silver, 2.7 oz.; antimony, 43 per cent.

Galloway reports in 1916 samples and assays as follows: No. 1, across 6 inches at point 15 feet from face: Gold, 0.08 oz.; silver, 0.8 oz. No. 2, across 18 inches at point 170 feet from face: Gold, 0.50 oz.; silver, 10.3 oz. This No. 2 sample would represent sampling between Nos. 4 and 5 in first list. No. 3, across 18 inches at point 100 feet in from portal: Gold, 0.08 oz.; silver, 0.9 oz. No. 4, picked specimen from dump showing high percentage of antimony with gold: Gold, 0.02 oz.; silver, 4.2 oz. Galloway's No. 3 sample was evidently taken near the point where the vein is first exposed on the adit level.

The Provincial Mineralogist's samples taken in 1910 are reported as follows: No. 1, rough sample of outcrop of upper vein assayed: Gold, 3.50 oz.; silver, $26 to the ton. No. 2, from across about 12 inches in raise 18 feet high at end of crosscut, part of adit where vein is first exposed: Gold, 0.28 oz.; silver, 2.60 oz.

"At the face of the tunnel (then 110 feet from portal) the whole drift was in ore, and apparently has not disclosed the full width of the ore-body. What was considered the 'hanging-wall' was quartz which I had sampled, and it assayed: Gold, $8; silver, 16 oz. to the ton. Below this the vein was exposed for a width of 90 inches, which I sampled in three parts of 30 inches each, and assayed as follows: Thirty inches next hanging-wall: Gold, trace; silver, 0.4 oz. Thirty inches middle of vein: Gold, 0.14 oz.; silver, 1.0 oz. Thirty inches bottom of vein: Gold, 0.20 oz.; silver, 30.4 oz.

"The lower 30 inches of the exposure in the face of the tunnel contains a considerable percentage of sulphide of antimony; this part of the vein continued into the floor of the tunnel for a depth not determined, so that the 30 inches sampled does not represent the full thickness of this grade of ore."

Development-work.—During the past year the development-work on the property has been almost exclusively confined to the following: Construction of a good wagon-road, with the necessary bridges across tributaries of the East fork of the Homathko river, to connect the south end of Tatlayoko lake with a new sawmill about 2 miles from the foot of the mountain in which the ore-deposits occur; construction of a new horse-trail from near the sawmill to the mine-workings, a distance of about 4 miles; developing water-power on Finnie creek and constructing ditch and flume to sawmill-site; constructing sawmill with capacity to cut about 3,000 feet board measure daily.

The development-work in the mine-workings is confined principally to the *Tyee* and *Tatlayoko* mineral claims and consists of two adits. The upper adit is 370 feet in length and the lower one 250 feet in length. There are two raises from the upper adit; one at a point 60 feet from the portal is 18 feet high; the other at a point 50 feet from the face of the adit is 20 feet high.

—KLINAKLINI RIVER SECTION.

The Klinaklini River section was visited by J. D. Galloway in 1916 when he was Assistant Provincial Mineralogist. He reached the headwaters of the Klinaklini river while on a trip from Bella Coola to Alexis Creek, in the Chilcotin country, and en route examined the groups of mineral claims on Chromium creek, the headwaters of the Klinaklini river, owned by the Hæmatite Mining Company. The writer in July last examined the same property, but reached the headwaters of the Klinaklini river from the east after passing the old Ben Franklin ranch on Tatla lake on his return trip from Tatlayoko lake. In Galloway's report, pages 166-168 of the Report of the Minister of Mines for 1916, he has described the geology and general characteristics of this section of the Nanaimo Mining Division quite fully, so that it is unnecessary to repeat such in this report.

The Klinaklini river is a stream several miles long; its course is very circuitous; its headwaters are made up from the junction of Chromium creek with two small tributaries which head in the easterly slope of the Coast range at an elevation of about 6,500 feet above sea-level. The main stream from below the junction of these creeks is called the Klinaklini river, which flows south-easterly through Render or Miners lake; then easterly a few miles to a wide valley known as Klinaklini flats, where the course changes to a westerly direction for about 5 miles. The river then flows through Pat McClinchey's ranch, beyond which it widens and forms One Eye lake. The lake is about 6 miles long and its valley is wide ranch land to its foot, where is located the Klinaklini telegraph-office at Sam Colwell's ranch. From the ranch the course of the river is in a general south-westerly direction through the Coast range to the salt water at the head of Knight inlet. Autos can be used on the wagon-road the entire distance from Alexis Creek to One Eye lake.

Haematite Mining Co.

The property known as that belonging to the Hæmatite Mining Company comprises a large group of mineral claims located at the head of Chromium creek, near the base and on the westerly slope of Perkins peak, the most prominent landmark in that section and the highest peak in that portion of the Coast range. Perkins peak reaches an elevation of nearly 10,000 feet above sea-level. The group of claims occupies the whole of the glacial cirque at the head of Chromium creek and the boundaries extend down that creek on both banks for a very considerable distance, there having been about seventy claims staked during 1920, in addition to the thirteen held in 1916 when Galloway made his examination. The entire group of claims is about 1,000 feet above timber-line, which fact led to the construction of a large rock cabin for a mine camp at a point far enough down the creek as to be considered beyond the danger-line from either snow or rock slides.

Geology.—The Hæmatite group of mineral claims is reached by travelling a pack-trail through the mountains for about 20 miles in a general south-westerly direction from One Eye lake to the base of Perkins peak at the head of Chromium creek, where the creek forms a wide deep gulch, with increasing width below the glacier at its source. The mountains on three sides are high, with precipitous slopes covered with slide-rock to a depth that is undetermined. A considerable proportion of these slides is made up of float iron ore in pieces varying in size from gravel to large lumps.

The country-rock in the vicinity of the group of claims is chiefly argillite, which has in many places been intruded by the granitic rocks of the Coast Range. The zone of contact between the granitic rocks and the older sedimentaries and volcanics is fairly well defined in the locality of the occurrence of the iron-ore deposits which Galloway considers are of contact-metamorphic origin.

Ore-deposits.—It is very difficult to form any opinion as to the extent of the deposits of hæmatite-iron ore, because, although several open-cuts have been made across the mineralized zone, none of these were deep enough to expose bed-rock, so that the only opinion that could be formed as to quantity of ore is from an estimate of the proportions of ore and country-rock in the dumps and along the walls of the open-cuts. Such an estimate could not be considered at the time of the writer's visit, because all of the cuts had been made previous to Galloway's examination in 1916 and were more less filled with slide-rock that would require the steady work of four or five men for weeks to remove.

The only development-work besides the open-cuts is a crosscut adit described by Galloway as being 600 feet long, but which in 1921 could not be examined because its caved condition made it impossible to enter it.

Samples and Assays.—Although it was not possible to take any samples from "ore in-place" owing to the conditions of the workings, one general sample and one selected were taken from dumps. These assayed: General: Iron, 48.9 per cent.; phosphorus, trace; sulphur, trace; silica, 30.7 per cent. Selected: Iron, 57.6 per cent.; phosphorus, 0.24 per cent.; sulphur, trace, silica, 15.6 per cent.

Galloway's samples assayed:—No. 1: Iron, 47.6 per cent.; phosphorus, trace; sulphur, *nil*. No. 2: Iron, 48.4 per cent.; phosphorus, trace; sulphur, *nil*. Selected ore: Iron, 57 per cent.; phosphorus, trace; sulphur, *nil*.

Conclusions.—It would appear as though under existing circumstances with regard to transportation facilities it is inadvisable to consider that the Klinaklini iron-ore deposits in themselves have any present commercial value, but that the evidences of mineralization are so pronounced and cover such a large area, not being merely confined to the Chromium Creek deposits, as to make the section quite attractive to prospectors searching for other minerals than iron ore.

In the event of other discoveries being made in the zone of contact represented in the section, such might develop into mines having sufficient commercial value to warrant the improvement of the transportation facilities to a point where the iron ore could be mined profitably. There is no question but that the quality is such as would make it an extremely popular supply for manufacture into iron or steel products.

Powell Lake Section.

Copper Bowl Group.

This group contains thirty-five mineral claims situated on and near the summit of the Coast range of mountains, between Powell lake and Theodosia arm of Malaspina inlet, about 80 miles from the city of Vancouver. The discovery of the occurrence of ore near the summit was made by Oswell Stevenson, of Powell lake, during a hunting-trip after mountain-goat. The geology of this interior section tributary to Powell lake has never been studied by any members of the Geological Survey of Canada. Along the Mainland coast-line the geology was examined by J. Austen Bancroft, whose report is published as Memoir No. 23, "Geology of the Coast and Islands between the Strait of Georgia and Queen Charlotte Sound, B.C.," Canada Department of Mines, Geological Survey Branch, 1913.

Powell lake is about 20 miles long, breaking through the Coast range of mountains from Powell river, locally called Goat river, from which the lake is fed, in a south-westerly direction, and having its outlet at Powell River falls, the power plant for a large pulp-mill. For the most part the mountains rise precipitously from the lake-shores to considerable elevations, though an exception to this rule is found at the mouth of Olsen river, which flows through a fairly wide valley, known as Olsen valley, into the westerly side of the lake about 10 miles from its outlet. In this valley there are several settlers who are cultivating farms along the Olsen river where the timber has been logged off, and they are apparently prosperous.

This discovery of the outcroppings of ore-deposits at and near the summit of the Coast range in this section furnishes another instance of the occurrence of a belt of metamorphosed stratified rocks which remain to-day as remnants of the roof which once covered the intrusive rocks of the batholith. The theory advanced by Bancroft, that where such ore-deposits occur in the roof-pendants they will be found up towards the tops of the mountains rather than at the lower levels, is proven to be correct with regard to the occurrences of ore not only on the *Copper Bowl* group of mineral claims, but also at other points in the Coast Range batholith. Prospectors who have during the past three or four years been searching for such occurrences have found out that to be successful their work must be done at the higher altitudes, because it is very seldom that any outcroppings of ore-deposits occur at lower levels.

Area and Title.—The *Copper Bowl* group contains thirty-five mineral claims, which cover an area of approximately 1,700 acres. The title to this group is held by Oswell Stevenson, A. L. Gilfillan, Mrs. M. Berry, Mondef Anderson, Robert Polsin, and W. Simmons, who form a syndicate, for which A. L. Gilfillan, Room No. 5, Williams Building, Vancouver, is trustee.

Geography.—The *Copper Bowl* group of mineral claims is in the Mainland portion of the Nanaimo Mining Division, in the Coast range between Theodosia arm of Malaspina inlet and the head of Siwash creek, which flows into Powell lake, on the westerly side of the lake, about 16 miles above its outlet. The property is about 80 miles distant from Vancouver and is reached at present by steamer to Powell River pulp-mills; thence transfer to foot of Powell lake by

auto; from there by launch to the mouth of Siwash creek, and on foot up Siwash creek, where there is only a very poor trail, to near the head of the creek at the foot of the mountain on which the group of mineral claims is located. An alternative route by which the property could be reached is by steamer to Theodosia arm of Malaspina inlet; thence through the woods to the claims; but before this route, which is the most direct, can be travelled as a pack-trail, it is necessary to cruise out and construct a trail from the shore to the claims.

Geology.—The mountains in the vicinity of Theodosia arm, as well as Powell lake, appear to have attractive features for prospecting, for the reason that at some points along the shore of the arm there are outcroppings of greenstones of the Valdes group of volcanic rocks, argillites, and quartzites, indicating the occurrence of belts of roof-pendants, with possibly ore-deposits. The presence of these rock formations, when considered with the outcroppings of ore-deposits at and near the summits of the mountain range between Theodosia arm and Powell lake, which occur in a similar rock formation, suggests the advisability of more thorough prospecting than has been done in the past.

Siwash creek, which was followed to reach the *Copper Bowl* group, from near its mouth on Powell lake for a distance of about 5 miles to within a short distance of its head is a torrential stream that flows in a general south-easterly direction, following the general line of strike of the altered sedimentaries. The grade of the creek-bed is very steep. The only rock formation observed near the creek is the granodiorite of the Coast range, but after climbing up a huge rock-slide that reaches to about 900 feet vertical height above the bed of Siwash creek, a contact is noticeable between the granodiorite and metamorphosed argillites and quartzites with the granodiorite on the easterly side of the altered sedimentaries. This contact is exposed in a deep, narrow, precipitous gulch in the mountain-side which extends from the summit down to the top of the rock-slide already referred to, and apparently follows the line of strike of the contact. The rocks are much sheared and fractured, indicating a shear-zone at the contact of considerable width. A stream of water was flowing down the contact-metamorphic rocks, where ore-outcroppings occur, at the time of examination, and this as well as the steepness of the gulch-bed interfered with the work, for the reason that there was no method to turn the water from the gulch and no rope to assist in climbing up the precipitous face of the gulch.

The occurrence of the metamorphosed sedimentaries in contact with the grandiorite was first observed above the top of the rock-slide at an elevation of about 3,000 feet above sea-level. From there the zone of the roof-pendant rocks appears to extend to the extreme summit of the mountain range and on to the opposite slope facing Theodosia arm, but not sufficient prospecting has been done to establish the continuity.

Ore-deposits.—The ore-deposits on the *Copper Bowl* group of mineral claims occur in a shear-zone of metamorphosed sedimentaries made up of argillites and quartzites at the contact between those rocks and granodiorite of the Coast Range batholith. The apparent strike of the belt of altered sedimentaries is north-westerly and the dip nearly vertical, but these data are not yet fully determined, neither is the extent of the ore-deposits, for the reason that there has not been sufficient prospecting or development work done. The shear-zone can be traced up towards the mountain summit by climbing up a deep, precipitous, narrow gulch from a point about 200 feet above the top of a huge rock-slide, about 900 feet vertical height above the bed of Siwash creek, where a few shots have exposed quartz carrying pyrite, arsenopyrite, a little galena, and chalcopyrite in a fissure. At the point where the mineralized quartz is first observed it appears to be narrow.

About 300 feet higher than the point just referred to more extensive outcroppings of sulphide ore occur, in which the mineralization is made up chiefly of pyrite, arsenopyrite, and chalcopyrite in a gangue composed of quartz and crushed country-rock. This occurrence is at a point on the mountain-side where a shelf or basin has been formed, and is an indication that continuity of the zone of metaorphosed sedimentaries is maintained, and suggests that more thorough prospecting-work is desirable in order to determine continuity and extent.

Samples and Assays.—A sample from the ledge-matter at the lowest point above the big rock-slide, where mineralization is observed, assayed: Gold, 0.20 oz.; silver, 43.2 oz.; copper, 0.5 per cent. The following are the assay results from samples taken in the basin or shelf about 300 feet higher elevation than the point just referred to: No. 1, from easterly end of shelf: Gold, trace; silver, 1.2 oz.; copper, 0.7 per cent. No. 2, from 15 feet from No. 1: Gold, 0.42 oz.; silver, 13.5 oz.; copper, 1 per cent. No. 3, from 20 feet from No. 2: Gold, trace; silver, 1.8 oz.; copper,

1.3 per cent. No. 4, from 15 feet from No. 3: Gold, trace; silver, trace; copper, 0.7 per cent. No. 5, from 15 feet from No. 4: Gold, 0.04 oz.; silver, 0.4 oz.; copper, 1 per cent. No. 6, from 30 feet from No. 5: Gold, trace; silver, 0.2 oz.; copper, 0.5 per cent.

Development-work.—The development-work on the *Copper Bowl* group of mineral claims is practically confined to surface-stripping and open-cuts preparatory to selecting the most desirable point at which to start a systematic method of general underground development.

Mayflower Group.

This group is in the Nanaimo Mining Division and contains two mineral claims, the *Mayflower* and *May*, owned by George Kennedy and Jack Howse, Foch Post-office, Powell lake. The group was examined on August 11th, 1921. The *Mayflower* group is in the mountains on the northerly side of the wide valley drained by Olsen river, which flows into Powell lake on the westerly side about 10 miles from the outlet. The timber in Olsen valley has been logged off for some years and several settlers are successfully farming on the land. The valley is about 4 miles long from the landing on Powell lake to Olsen lake, at the head of the valley. The mountains on both the north and south sides of the valley are high and rugged.

The mineral claims are reached by travelling a good road for about 3 miles from Olsen Landing to near the mouth of a small unnamed creek that flows from the mountains through a deep canyon about a mile from the wagon-road. The elevation of the mine-workings is about 2,000 feet above sea-level, and from the cabin salt water in Theodosia arm of Malaspina inlet can be seen.

Geology.—The country-rock on the *Mayflower* group of mineral claims is made up chiefly of metamorphosed sedimentaries, limestone, and intrusive granitic rocks of the Coast Range batholith, evidently another instance of the occurrence of a zone of undestroyed roof-pendants. Associated with the altered limestone there are bodies of such contact-metamorphic minerals as hornblende, epidote, and garnet, also occurrences of pyrrhotite, iron pyrites, and some chalcopyrite.

Ore-deposits.—There are three outcroppings of contact-metamorphic minerals, made up principally of hornblende, pyrrhotite, iron pyrites, epidote, and garnet, with some chalcopyrite, that are exposed in the deep canyon near the head of the small creek referred to. These outcroppings have apparently been crosscut by the canyon. They are exposed in each case for about 7 or 8 feet wide, but apparently are not continuous for any considerable depth. In two adits driven to develop the deposits at depth the results have not been satisfactory, as no ore carrying values is exposed in the upper adit, and in the lower one it looks as though the only occurrence of ore has been crosscut at the portal of the adit.

Samples and Assays.—Two samples were taken—one from the face of the No. 1 or upper adit; the other from the dump of pyrrhotite at the portal of the No. 2 or lower adit. The first of these samples assayed traces only in gold, silver, and copper; the second sample assayed: Gold, *nil*; silver, *nil;* copper, 3.7 per cent.

Development-work.—There are two adits which have been driven into the wall of the canyon; these are known as No. 1 or upper adit and No. 2 or lower adit, the lower one being about 300 feet down the canyon from the upper and at about 70 or 80 feet lower elevation. The No. 1 adit is 72 feet long, driven in a north-westerly (mag.) direction; No. 2 adit is 38 feet long, also driven in a north-westerly (mag.) direction. There is also an open-cut approach 15 feet long to the No. 2 adit.

Ophir Group.

This group was examined on August 12th, 1921. It contains two mineral claims recorded as the *Ophir* and *Shamrock*, owned by J. Shearman; post-office address, Powell River. The *Ophir* group of mineral claims is on Copper creek, a small stream flowing in an easterly direction into the north side of Powell lake, about 3 miles above its outlet near the Powell River paper-mills. The *Shamrock* mineral claim is on the northerly side of Copper creek and the *Ophir* claim on the southerly side of the creek adjoining the *Shamrock*, but with its westerly boundary a short distance westerly from that end of the *Shamrock* claim.

Geology.—The country-rock on the *Ophir* group of mineral claims resembles diorite, which is considerably sheared and fractured. In the shear-zone there occurs a system of fissuring, and one of these fissures on the *Shamrock* claim is filled with breccia and quartz, the quartz portion of the vein-filler being about 7 feet wide. The line of strike of the fissure is north-easterly and dip 45° to the north-west (mag.). The vein-filler is mineralized with particles of galena, chalcopyrite, and iron pyrites disseminated irregularly through the quartz and breccia.

Ore-deposits.—The deposit or vein of ore on the *Shamrock* claim has not been developed to a sufficient extent to determine many facts relative to its length or width, the latter measurement only having been shown at one point underground where in the face of a crosscut adit the portion of the fissure filled with quartz is 7 feet wide, sparsely mineralized, but not enough so as to warrant shipping as ore. The deposit does appear to have sufficient indications of carrying enough values to make it an ideal concentrating proposition, especially when it is considered that Copper creek carries sufficient water for concentrating purposes.

Samples and Assays.—No samples were taken during the examination, but in 1917 a sample of sorted ore taken by the writer of this report assayed: Gold, 0.2 oz.; silver, 9.8 oz.; copper, 1.9 per cent. A grab sample assayed: Gold, 0.02 oz.; silver, 1.8 oz.; copper, 1.1 per cent.

Development-work.—The development-work consists of a wide open-cut approach 12 feet long to a crosscut adit 27 feet long driven in a N. 50° W. (mag.) direction.

On the *Ophir* claim of the group the conditions with regard to the geology and ore-deposits are very similar to those on the *Shamrock* claim; in fact, it appears as though the ore-deposit extended on to the ground occupied by the *Ophir* claim, but the dip of the fissure is much flatter than on the *Shamrock* claim and in the opposite direction. The outcroppings of mineralized vein material on the *Ophir* claim are at a somewhat higher elevation than those on the *Shamrock* claim and have been developed less. The development-work on the *Ophir* is represented by two large open-cuts.

Strathcona Park Section.

Paramount Mining Co.

The *Lynx*, *Paw*, and *Shot* groups of mineral claims on Myra and Price creeks, which flow into Buttle lake near its head, are owned by the Paramount Mining Company; Joseph Errington, of San Francisco, managing director. In the Annual Report of the Minister of Mines for 1920, pages 207 and 208, these groups of mineral claims were fully described. During 1921 the systematic prospecting-work that was carried on during the previous year has been continued, and Crown grants have been applied for with regard to several of the claims contained in the groups.

Texada Island Section.

The mining industry on Texada island has not been as active during 1921 as in previous years owing to the closing-down of the *Marble Bay* mine, which has been a regular shipper of copper-gold ore carrying values in excess of the usual averages contained in the ores from copper-mines in the Coast District.

The prospecting-work done by diamond-drilling during 1920 below the 1,600-foot level had exposed an ore-body at a lower level than had heretofore been prospected, and nearly under the ore-body mined from the 1,600-foot stope, and arrangements were being made to continue sinking the winze from the 1,600-foot level, and to drift on the newly discovered ore-body to determine its extent preliminary to stoping.

The slump in copper took place about the same time, so the management decided to close all work down until the copper market recovered sufficiently to guarantee profitable operations.

The ore-body exposed by the drill-holes was quite promising, and the assays from the drill-cores showed about the same values as the average shipments of first-class ore have carried in the past.

Owing to the closing-down of the *Marble Bay* mine the only production from Texada island during 1921 was a limited tonnage of magnetite-iron ore from the *Good Hope* mineral claim on Raven bay, also of limestone from the quarries on Sturt (Marble) bay and on Blubber bay, at the north-westerly end of the island.

Development-work has been done during 1921 on the *Marjorie*, *Nancy Bell*, and *Sentinel* groups of mineral claims, also by John D. Edwards on his group of claims near Gillies bay.

Marjorie Group.

This group, which contains the *Marjorie*, *Fairview*, *Wild*, *Saga*, and *Tenas Fraction* mineral claims, was bonded in 1921 by Jack McConville, of Vananda, and partners, who extended the development-work done in the past, and when an examination was made by the writer on May 29th, 1921, were preparing to build a mill and concentrating plant near the mine-workings. As the *Marjorie* group was fully described in the Annual Report of the Minister of Mines for 1916, it is unnecessary to repeat the description in the present report. The ore-deposits on the *Marjorie* group are a system of quartz veins occurring in porphyrite country-rock not far from its contact with the Marble Bay limestone.

The values carried by the quartz-vein filler are quite erratic, as shown by the assays of three samples taken during the examination. No. 1, from a prospect-hole on a quartz vein about 220 feet north-westerly from the main shaft, assayed: Gold, trace; silver, trace. No. 2, from same prospect-hole, assayed: Gold, *nil;* silver, *nil.* No. 3, from pay-shoot about 4 inches wide from drift from the main shaft, assayed: Gold, 4.5 oz.; silver, 0.5 oz. The vein-filler at the point sampled consists of quartz 13 inches wide, gouge about ¼ inch wide, and crushed country-rock and quartz about 24 inches wide.

Nancy Bell Group.

This group contains three Crown-granted mineral claims, designated as Land Lots Nos. 44, 46, and 105, owned by Wm. Lee and Wm. McDonald, of Vananda and Hugh McMillan, of Nanaimo. The property was examined on May 30th, 1921. That part of the *Nancy Bell* group of mineral claims designated as Land Lot No. 44, originally known as the *Silver Tip* mineral claim, has a history extending back to 1897, when James Findlay, of Vancouver, acting for a St. John, New Brunswick, syndicate, developed it by sinking two shafts on the strike of a fissure-zone in porphyrite country-rock. One of the shafts is 145 feet deep; the other 150 feet, with an interval of 200 feet between them. Some drifting was also done from the bottom of the last-named shaft, also from a station at the 50-foot level. About 1900 all work was suspended; later the buildings erected for a camp were destroyed by fire. Since then, until last year, there has been no activity on the *Silver Tip* mineral claim.

During the past year the *Silver Tip* (Land Lot No. 44), *Nancy Bell* (Land Lot No. 46), and the *Thyee* (Land Lot No. 105) mineral claims have been consolidated under the ownership before mentioned and development-work has been progressing, superintended by Wm. Lee, who has since 1875 acted as local manager for the Puget Sound Iron Company, owners of all of the magnetite-deposits on the west coast of Texada island.

Geography.—The *Nancy Bell* group of mineral claims is in the north-westerly portion of Texada island, near the northerly base of Surprise mountain and about a mile easterly from Davis bay. The group is reached by travelling the Vananda–Iron Mines wagon-road to its junction with the road from Kirk lake; thence westerly about a mile to the *Silver Tip*, *Nancy Bell*, and *Thyee* mineral claims, which adjoin each other, except that there is a small land lot (No. 45) between the *Silver Tip* and *Thyee* mineral claims. The *Thyee* claim is north-westerly from the *Silver Tip* and the *Nancy Bell* southerly from the *Silver Tip*.

Geology.—The country-rock on the *Nancy Bell* group is porphyrite, which contacts with the Marble Bay limestone about a mile easterly from the *Silver Tip* and *Nancy Bell* claims. According to McConnell's geological map of Texada island, the porphyrite country-rock occurs in a vast mass covering all of the area northerly from Welcome bay to Crescent bay and easterly beyond Spectacle lake and Priest lake to the west side of Emily lake. In this portion of Texada island, especially on the *Nancy Bell* group, occurs a network of quartz veins and silicified fissure-zones which cut the porphyrite country-rock.

Ore-deposits.—The ore-deposits on the *Nancy Bell* group occur as quartz veins in one of the fissure-zones described by McConnell. These veins are quite numerous, they vary in width from 6 inches to 3 feet, and appear to be confined to one wide fissure-zone which strikes in a general north-westerly direction, but sometimes the strike of some of the quartz veins varies from north-westerly to westerly. The fissure-zone is apparently continuous for several hundred feet, extending through the entire group of mineral claims.

The development-work had not been sufficient up to the date of the examination to determine many material facts relative to the length of the various quartz veins or the depth to which they maintained continuity. The dips vary from 64° to the southerly to almost vertical. The gangue is quartz; the walls are well defined, with gouge usually on both walls and always on one.

The mineralization of the vein-filler is very similar in all of the quartz veins, being made up of iron pyrite, galena, zinc-blende, and some free gold.

Samples and Assays.—Several samples were taken from the several open-cuts, but the shafts could not be sampled owing to the quantity of water in them. The samples assayed as follows:—No. 1: Gold, 0.24 oz.; silver, 0.8 oz. No. 2: Gold, 0.4 oz.; silver, 3.5 oz.; zinc, 13 per cent. No. 3: Gold, 1.4 oz.; silver, 0.6 oz.; zinc, 0.5 per cent. No. 4: Gold, 0.82 oz.; silver, 0.4 oz.; zinc, 0.5 per cent.; copper, 1.2 per cent. No. 5: Gold, 0.4 oz.; silver, 0.04 oz.; zinc, 0.5 per cent.

Since taking the above-mentioned samples the writer is advised by Mr. Lee, the superintendent, that in extending the development-work on the *Nancy Bell* mineral claim, assay results

from his samples show higher values in gold than the samples taken at the time of the examination on which this report is based.

Development-work.—Since resuming work on the *Nancy Bell* group, up to the time of the examination, the work done had been principally prospecting along the strike of the fissure-zone from near the easterly end of the *Nancy Bell* claim to the north-westerly end of the *Thyee* claim. There are seven open-cuts varying from about 10 to 18 feet long, a crosscut adit 60 feet long, and several prospect-holes, each about 6 to 8 feet deep. Since the examination was made the writer is advised that work has been continued and a shaft sunk on the *Nancy Bell* claim.

Sentinel Group. This group, which was examined on May 31st, 1921, contains two mineral claims—the *Sentinel* and *Red Wing*—and is owned by Robert Swan, of Vananda. The *Sentinel* group is near the centre of Texada island, a short distance southerly from the Vananda–Gillies Bay wagon-road and northerly from Paxton lake.

Geology.—The country-rock on the *Sentinel* group is crystalline limestone, classified by McConnell as "Marble Bay" limestone, but the contact between that rock and porphyrite is in the near vicinity. The limestone is very much fissured and is traversed occasionally by diorite-porphyrite dykes.

Ore-deposits.—McConnell refers to the ore-deposits on the *Sentinel* group in the following language in Memoir No. 58, "Texada Island, B.C.," published by Canada Department of Mines, Geological Survey, 1914: "The mineral-deposits at the *Sentinel* differ from the ordinary types prevalent on the island. They consist of iron and copper pyrites, galena, tetrahedrite, and blend in grains, small aggregates, and veinlets scattered irregularly in small quantities through a wide band of the fissured and broken limestone. The ordinary contact-metamorphic minerals, with the exception of calcite and quartz, are almost entirely absent."

QUADRA ISLAND SECTION.

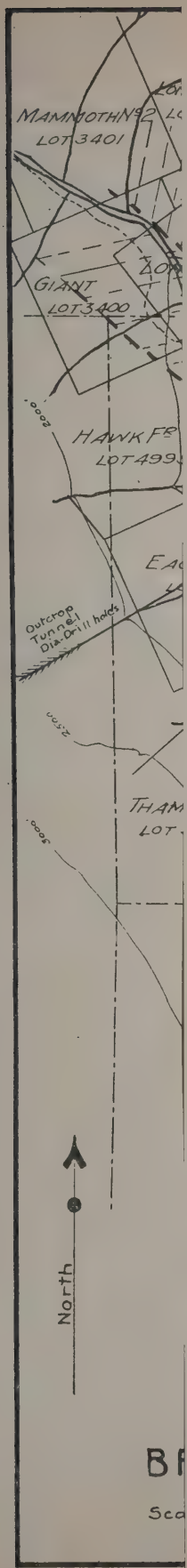
In the Quadra Island section of the Nanaimo Mining Division there has been but little activity during 1921. The expected resumption of development-work and shipments from the *Ingersoll* group of Crown-granted mineral claims were postponed, as was also the further development of the groups near Bold point, on the easterly side of the island, and Granite bay, on the westerly side. In fact, the only activity was in the vicinity of Deep Water bay, on the westerly side of the island, and Heriot bay, on the easterly side. The *Wanderer* group near Deep Water bay and the *Dawn* group near Heriot bay were examined on June 17th and 19th, and as these have never before been reported on, the following reports are included here:—

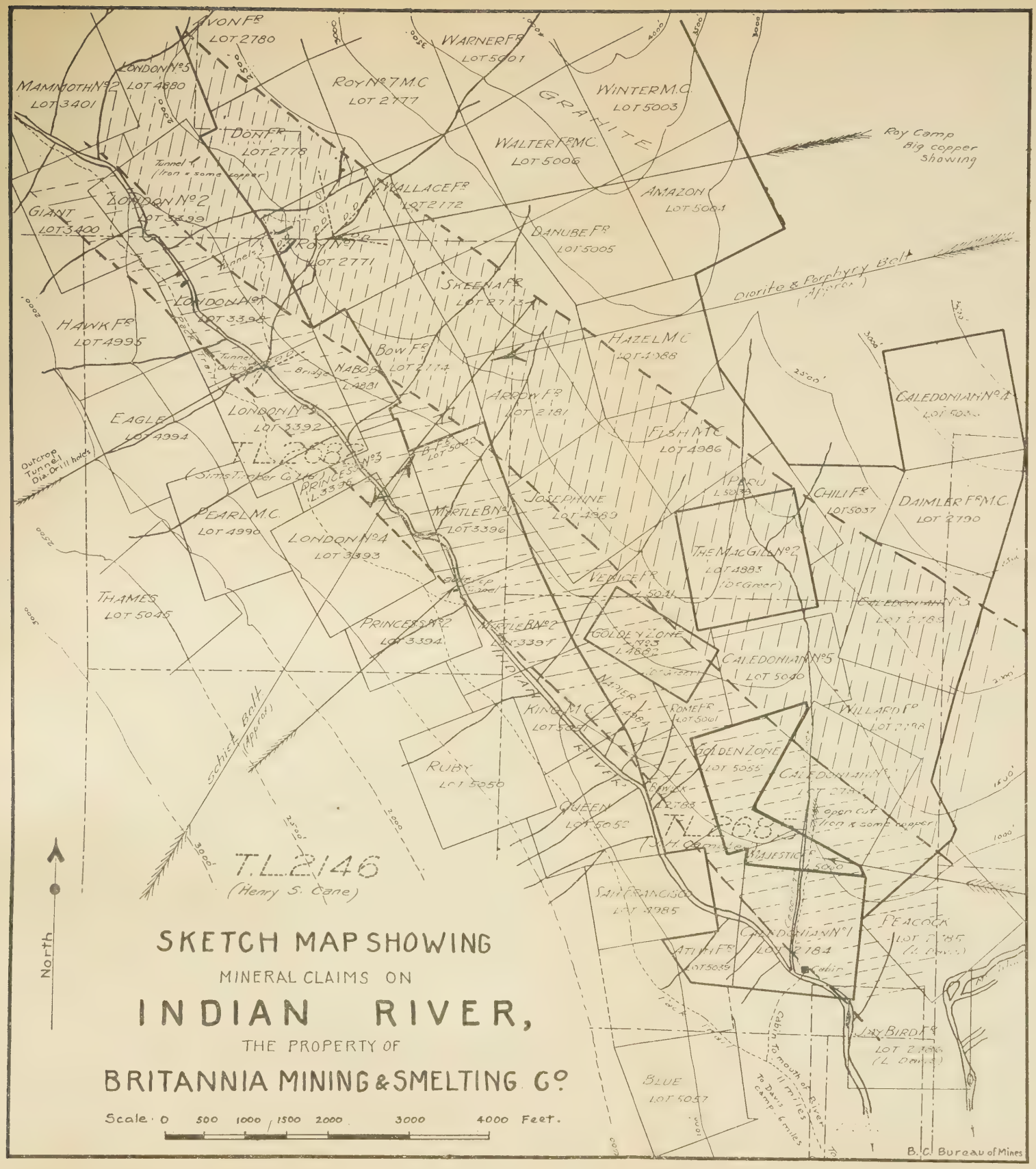
Wanderer Group. This group contains the *Wanderer* and *Prospector* mineral claims, owned by Albert Ross and Edward Hamilton; address, Granite Bay, Quadra Island. The group is about 1¼ miles easterly from Deep Water bay, near the head of a small creek which has a very steep fall and flows between high, almost precipitous, banks. Deep Water bay is a short distance northerly from Seymour narrows, where navigation is extremely hazardous for launches and small boats because of the rapid flow of the tides, the tide-rips, and whirlpools. In Deep Water bay there is fairly good shelter for light-draught vessels, as there also is in the other harbours on the westerly coast of Quadra island, such as Granite bay, Gowland harbour, and Quathiaski cove. On the easterly coast of Quadra island the safest shelter is in Heriot bay, but there is also fairly good shelter for small boats in the cove near Bold point and in Hyacinth bay.

The *Wanderer* group of mineral claims is at present reached by the wagon-road (old logging-railway) from Granite bay about 3 miles long; then by trail about 3 miles, there being no trail from Deep Water bay. The writer walked to the groups from Deep Water bay through timber in order to observe the feasibility of constructing a trail by that route, about 1¼ miles long, and so avoid travelling the route from Granite bay, about 6 miles long, but very much easier travelling.

Geology.—The country-rock in the near vicinity of the *Wanderer* group is the volcanic rock typical of the formation of the greater part of Quadra island, but the limestone-belt, which is of considerable width and is continuous across the island from Open bay, on the easterly side, to near Granite bay, on the westerly, contacts with the volcanics not a great distance from the ore-body on the *Wanderer* group.

Ore-deposits.—Copper-sulphide ore occurs on the *Wanderer* mineral claim, on which all the development-work has been so far done, in a fissure in a shear-zone in the volcanics. The


MAMMOTH No 2
LOT 3401
GIANT
LOT 3400
HAWK FR
Outcrop
Tunnel
Dia. Drill holes
THAM
LOT
North


AVON Fr
LOT 2780
WARNER Fr
LOT 5001
LONDON No 5
LOT 4880
MAMMOTH No 2
LOT 3401
ROY No 7 M.C
LOT 2777
WINTER M.C
LOT 5003
GRANITE
DON Fr
LOT 2778
WALTER Fr M.C.
LOT 5006
Roy Camp
Big copper
showing
Tunnel
(Iron & some copper)
WALLACE Fr
LOT 2172
AMAZON
LOT 5004
LONDON No 2
LOT 3399
GIANT
LOT 3400
DANUBE Fr
LOT 5005
ARGO No 1
LOT 2771
Tunnels
SKEENA Fr
LOT 2173
Diorite & Porphyry Belt
(Approx.)
LONDON No 1
LOT 3398
HAWK Fr
LOT 4995
HAZEL M.C
LOT 4988
Tunnel
Outcrop
Bridge
BOW Fr
NABOB
LOT 2174
LOT 4881
CALEDONIAN No 4
LOT 5038
ARROW Fr
LOT 2181
LONDON No 3
LOT 3392
EAGLE
LOT 4994
FISHNTC
LOT 4986
Outcrop
Tunnel
Dia. Drill holds
T.L. 268
(Sims Timber Co Ltd)
PRINCES No 3
L 3396
PERU
L 5039
CHILI Fr
LOT 5037
DAIMLER Fr M.C.
LOT 2790
PEARL M.C.
LOT 4990
MYRTLE BN No 1
LOT 3396
JOSEPHINE
LOT 4983
LONDON No 4
LOT 3393
THE MAC GILL No 2
LOT 4883
(D.D. Greer)
VERDICE Fr
L 5041
Open Cut
THAMES
LOT 5045
CALEDONIAN No 3
LOT 2789
GOLDEN ZONE No 3
L 4882
PRINCES No 2
LOT 3394
MYRTLE BN No 2
LOT 3397
CALEDONIAN No 5
LOT 5040
NAPIER
L 4884
KING M.C.
LOT 5041
ROME Fr
LOT 5041
WILLARD Fr
LOT 2788
Schist Belt
(Approx.)
GOLDEN ZONE
LOT 5055
RUBY
LOT 5050
CALEDONIAN No 2
LOT 2786
Open Cut
Iron & some copper
BENNETT
LOT 883
QUEEN
LOT 5052
T.L. 268
(J.H. Greer)
MAJESTIC Fr
LOT 5040
T.L. 2146
(Henry S. Cane)
SAN FRANCISCO
LOT 4985
PEACOCK
LOT 2785
(L. Davis)
CALEDONIAN No 1
LOT 2784
ATLIN Fr
LOT 5039
Cabin
North
SKETCH MAP SHOWING
MINERAL CLAIMS ON
INDIAN RIVER,
THE PROPERTY OF
BRITANNIA MINING & SMELTING Co.
Scale 0 500 1000 1500 2000 3000 4000 Feet.
JAY BIRD Fr
LOT 2786
(L. Davis)
Cabin to mouth of River 11 miles
To Davis camp 6 miles
BLUE
LOT 5057
B.C. Bureau of Mines

mineralization is principally chalcopyrite, associated with which is chalcocite and bornite. The gangue is chiefly quartz. The vein which carries the ore is quite persistent, although it is narrow, but the grade of the ore averages so well that it is possible that a comparatively small mine having commercial value might be developed.

Samples and Assays.—A sample of float from a rock-slide below the mine-workings assayed: Gold, trace; silver, 1.8 oz.; copper, 19 per cent. Another sample, a grab from a small dump at the portal of the drift-adit, assayed: Gold, trace; silver, 1.8 oz.; copper, 15.5 per cent.

Development-work.—The development-work has all been done on the *Wanderer* claim and consists of a drift-adit about 155 feet long, with two short crosscuts and a raise from the adit.

Dawn Group.

This group consists of the *Dawn* and *Rose* mineral claims, owned by Warren Teeter and Fred Bucher; address, Heriot Bay. The group is about a mile south-westerly from the Heriot Bay Hotel, near the shore, a short distance from the entrance of Hyacinth bay. The claims are reached by a wagon-road from the Heriot Bay Hotel. This road is the main highway across Quadra island, connecting Heriot bay on the easterly side with Gowland harbour and Quathiaski cove on the westerly side.

Geology.—The country-rock in the vicinity of the *Dawn* group is volcanic, typical of the southerly section of the island between the easterly and westerly coasts. The volcanic rock is very much sheared and fissured and presents favourable conditions for the occurrence of ore-deposits. The "Open Bay" limestone-belt contacts with the volcanics on this side of Quadra island at no great distance from the *Dawn* group, but it is doubtful if contact metamorphism has extended to the rocks on that group.

Ore-deposits.—The ore-deposit on the *Dawn* group occurs as a gash-vein filled with quartz mineralized with chalcopyrite, iron pyrite, and a little galena. The quartz vein where exposed by development-work is about 3 feet wide, with considerable gouge on the foot-wall side. The vein strikes north (mag.) and dips 85° to the east (mag.).

Samples and Assays.—Three samples were taken, two of which were said to have come from near the bottom of a shaft, full of water at the time of the examination, and the third was from sorted ore on a small dump at the collar of the same shaft. Sample No. 1 assayed: Gold, trace; silver, 0.8 oz.; copper, 4.4 per cent. Sample No. 2 assayed: Gold, trace; silver, trace; copper, 0.2 per cent. Sample No. 3 (dump) assayed: Gold, trace; silver, 0.8 oz.; copper, 10.9 per cent.

Development-work.—There are two shafts on the *Dawn* mineral claim, each said to be about 18 feet deep, but being full of water at the time of the examination could not be examined. There is also a long open-cut approach to the collar of one of the shafts.

VANCOUVER MINING DIVISION.

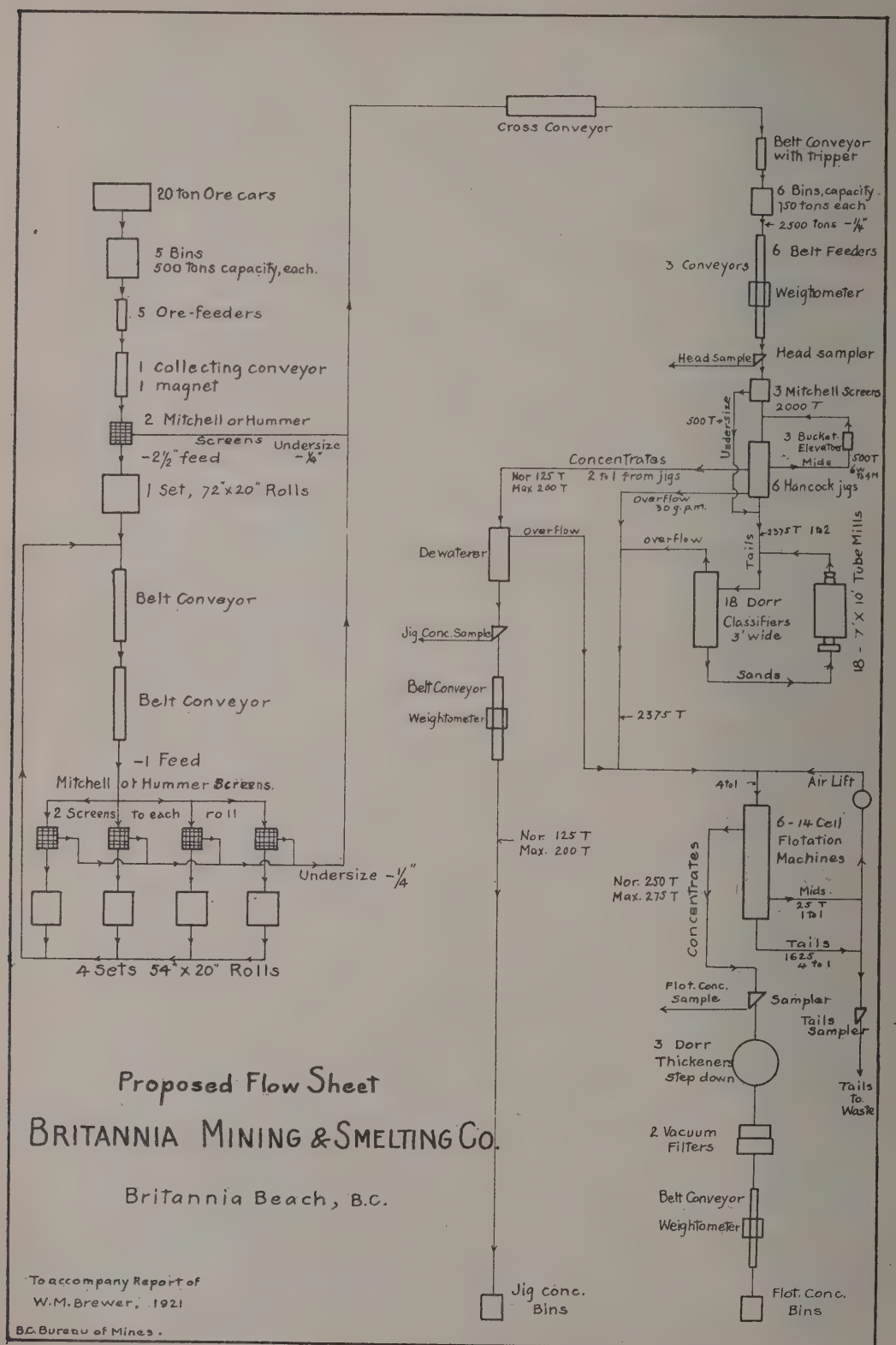
In the Vancouver Mining Division the development-work done during 1921 has been confined almost exclusively to that done by the Britannia Mining and Smelting Company on the *Britannia* mine, also by D. McKinnon, D. McCallum, and O. W. Rafuse on Ray creek, a tributary of the Stawamus river, and by J. Habrich on the Indian river.

The Britannia Company has kept about 250 men employed in extending the development-work in the mine and blocking out available ore. This work has resulted in largely increasing the tonnage of ore in sight, as well as exposing bodies of ore carrying very much higher values in copper than the usual run of mine ore heretofore worked.

The development-work done on Ray creek during the past year has resulted in determining the occurrence of what may be termed as the pay-shoot in the wide zone of schist. Samples taken at the time an examination was made by the writer early in September assayed from 0.1 to 6.8 per cent. in copper.

Britannia Mining and Smelting Co.

Early in February, 1922, the announcement was made that E. J. Donohue, who succeeded J. H. Moodie as general manager, had resigned that position, and that C. P. Browning, who has been superintendent of the mines of the company for several years, had been appointed general manager. While congratulating Mr. Browning on his well-deserved promotion and wishing him every success in the future, the writer desires to express his hearty appreciation of the many kindnesses and courtesies extended to him, both in his official position and personally, by Mr. Donohue, also to extend to him the sincere wish that he may enjoy health, happiness, and prosperity for many years to come.



Proposed Flow Sheet

BRITANNIA MINING & SMELTING CO.

Britannia Beach, B.C.

To accompany Report of W.M. Brewer, 1921

B.C. Bureau of Mines.

Since the concentrating-mill at Britannia Beach was destroyed by fire in 1921 the management has been busily engaged in making arrangements for rebuilding. Fred Bradley, of the firm of Bradley, Bruff & Labarthe, of San Francisco, was consulted with regard to a design for a new mill to replace the one destroyed by fire, with the result that contracts have been entered into with the Canadian Northwest Steel Company for building and equipping a plant having a capacity to treat 2,500 tons of ore daily, the flow-sheet of which is reproduced in this report. The building will be constructed of steel and concrete throughout and thereby be absolutely fire-proof.

Flow-sheet.—The upper floor of the new mill will be at a slightly lower elevation than the portal of the main haulage-adit, or about 250 feet above sea-level, known in the mine as the 4,100-foot level, it being about that distance vertically below the outcroppings on the *Fairview* mineral claim, from which the levels in the mine are numbered, the outcrop being zero. This main haulage-adit is about 4,900 feet long, 13 feet wide by 9 feet high, and is connected with the mine-workings on the 2,700-foot level by an incline rock-raise on a 65° slope, 1,488 feet high. This raise was finished in November last, so that when the new mill is completed everything is in readiness for haulage operations by this route, which will supplant the present incline tramway from the 2,700-foot level to the ore-bunkers at Britannia Beach.

The new mill is designed so that the ore from the mine, broken on the crusher level in the mine to a 2½-inch ring size, will be hauled in cars of 20 tons capacity through the main haulage-adit and delivered into ore-bins on the top story of the mill, where five bins, each having a capacity of 500 tons, will receive the broken ore. From these bins the ore passes through feeders to a collecting-conveyor equipped with a magnet and on to two Hummer screens, from which the undersize, ¼ inch or less, is carried to the lower story of the mill, and by a cross-conveyor to a belt-conveyor equipped with a tripper into five ore-bins, each having a capacity of 750 tons. From these bins the ore is carried by belt-conveyors to a weightometer, and from it into an automatic sampler. From the sampler the ore passes on to three Hummer screens, from which the undersize passes into Dorr classifiers, of which there are eighteen. The oversize from the Hummer screens passes into six Hancock jigs, from which the concentrates are discharged into a dewaterer, from there to an automatic sampler, which discharges the discard on to a belt-conveyor connecting with a weightometer, from which the concentrates are carried to the jig concentrates-bin in the mill building ready for shipment.

Of the undersized from the first set of Hummer screens which passes into the Dorr classifiers, the sands are discharged into eighteen tube-mills, each 7 by 10 feet, and from these mills are returned to the Dorr classifiers, the overflow from which, together with the overflow from the dewaterer following the jigs, as well as from the jigs, is conveyed to the flotation-cells. From these cells three products are made—concentrates, middlings, and tailings. The concentrates are conveyed to an automatic sampler, from that into three Dorr thickeners; thence into two vacuum-filters, which discharge on to a belt-conveyor connecting with a weightometer and conveyed to the flotation concentrates-bin in the mill ready for shipment; the middlings discharged from flotation-cells are conveyed to an air-lift and returned to the cells for further treatment; the tailings from the cells are conveyed to an automatic sampler, sampled, and discharged to waste-dump.

Returning to the top story of the mill to the Hummer screens, from which the undersize product has just been followed through the course of treatment to the shipping-bins, in order to describe the treatment accorded to the oversize feed discharged from the Hummer screens, it is found that it passes into a set of 72-inch by 20-inch rolls; then on to belt-conveyors, by which it is conveyed to Hummer screens, from which the undersize is conveyed to the lower story of the mill, where it is treated in the same manner as the undersize from the first-mentioned Hummer screens. The oversize from the second set of Hummer screens is conveyed to four sets of 54- by 20-inch rolls, from which the product is carried back to the belt-conveyors which follow the set of 72- by 20-inch rolls.

The bunkers on the shipping-wharf that have been used in the past from which to load concentrates into vessels are to be abandoned, and in their place the jig and flotation concentrates-bins in the mill will be used for storage-bins, which will be connected with the hold of a vessel at the wharf by a belt-conveyor about 2,000 feet long. This arrangement removes all danger from fire to the wharf bunkers, which has always been a source of anxiety in the past to the management.

At the Britannia Beach camp arrangements are being made to rebuild the residences and other buildings destroyed by the flood on a new site where the ground-level is so much higher than the old site that there will be absolutely no danger from a recurrence of any flood from such high water as occurred in October last. The culvert and fill on the electric railway across Britannia creek is being replaced by a steel suspension bridge, and no effort or expense is being spared by the company to avert danger in every way possible to conform with the "safety-first" policy.

In this respect the management has gone so far as to abandon nearly twenty buildings, including some large bunk and cook houses, at the 2,200-foot level camp, which was built to take the place of the old original camp on the 1,000-foot level, because there was a possibility that under aggravated conditions a rock-slide might occur which would endanger some of the buildings and mean disaster to the occupants.

During 1921 the operations at the mine have been confined almost entirely to development-work and the installation of improved ore-crushing machinery on the 1,700-foot level of greater capacity than has been employed in the past. In order to facilitate this installation a drift has been driven on a 30° slope 186 feet long from the 1,800-foot level to the 1,700-foot level, about 100 feet higher than the 1,800-foot level. The levels in the Britannia are numbered from the surface outcrop, 4,350 feet above sea-level, downward to the 4,100-foot level, which is about the same level as the roof of the mill building at Britannia Beach, about 2 miles in an air-line westerly from the open-cut on the *Fairview* mine.

Heretofore the ore-crushers have been operated on the 1,800-foot level, but in future there will be on the 1,700-foot level the 24 by 36 jaw-crusher formerly on the 1,800-foot level, also a 7½ K. gyratory crusher, while on the 1,800-foot level a new gyratory crusher of the same type and size will occupy the former position of the jaw-crusher. This arrangement, which necessitated the excavation of a large crusher-chamber on the 1,700-foot level, will afford a 2-stage preliminary crushing of the ore to 2½-inch ring previous to its transportation from the mine to the mill.

Another improvement in connection with the gravity system of handling ore through rock-raises has been the erection of a heavy reinforced concrete bulk-head in the main 68 ore-raise. This bulk-head directs the ore to the crushers, which discharge the crushed product into the ore-raise below the bulk-head.

The development-work done during 1921 was principally on the *Victoria* section of the property, easterly from the *Fairview* and *Empress* sections, where a newly discovered ore-body was developed. With regard to this ore-body, it is interesting to note that its discovery was one of the results of the geological examination made by Dr. S. J. Schofield, of the Geological Survey of Canada, during the seasons of 1919 and 1920. In accordance with his advice, Mr. Moodie, the then general manager, undertook prospecting with diamond-drills in ground that had previously been considered as practically barren. The result was that an apparently extensive body of copper-sulphide ore was proved. Samples from this, when assayed, showed higher average values than had before been found in the sections of the Britannia mine that had been worked since operations began. The ore-body occurs on and below a level corresponding with the 1,900-foot level in the main workings, and considerably lower than the ore-bodies in those workings have yet been developed.

In detail the development-work done in the mine during 1921, nearly all of which was on the *Victoria* section, has been as follows: Drifts, 1,909 feet; crosscuts, 1,027 feet; raises, 3,194 feet; winzes, 118 feet; giving a total of 6,248 feet. No diamond-drilling has been done on the property during the past year.

A winze is being sunk from the 1,900-foot level on the *Victoria* section, through which ore from the levels below will be hoisted and delivered into buckets on an aerial tram, by which it will be transported to the portal of the adit on the 1,600-foot level in the *Empress* section, and from there transported to the top of the ore or rock raise on the 2,700-foot level, down which it will fall into bunkers in the main haulage-adit on the 4,100-foot level.

A sawmill with capacity of 30,000 feet B.M. daily has been built near the entrance to the *Victoria* section for cutting and shaping mine-timbers. A 3-story bunk-house, 30 by 100 feet, has been built and a dry-house, 25 by 40 feet, for the accommodation of the miners working in that section.

Shipments.—The only shipments made during 1921 were from the bunkers at Britannia Beach, the product on hand at the close of 1920. These shipments were made to the Tacoma

smelter, as follows: Tons of ore and concentrates shipped, 47,385 tons; product, 646 oz. gold, 7,943 oz. silver, and 1,411,376 lb. copper.

Stawamus River Section.

Bruce and Radiant Groups.

The following report describes the geography, geology, ore-deposits, development-work, samples and assay values of the sulphide ores which occur in a wide zone of siliceous schists crosscut by Ray and Little Ray creeks, tributaries of the Stawamus river. This zone of schists is evidently a remnant of one of the undestroyed roof-pendants that occur in the granodiorite intrusive batholith of the Coast range. It has been suggested that the zone is an extension of the Britannia belt, but apparently such a theory is not warranted, because a wide belt or zone of granodiorite occurs between the schists of the Britannia belt and those on Ray creek. It appears more probable that the Ray creek schist country-rock is an example of an isolated lens of considerable extent of a remnant of one of the undestroyed roof-pendants.

The schists are heavily mineralized with iron pyrites and some chalcopyrite, with the iron pyrites very much in excess of the chalcopyrite at the lower elevation; in fact, the pay-shoot appears to occur only at an elevation higher than about 2,000 feet and near the contact between the schists and granodiorite. The encouraging feature regarding the groups of mineral claims considered in the following report is the fact that the observations of Camsell and other geologists and engineers as to the occurrence of remnants of undestroyed lenses of roof-pendants made up of more or less metamorphosed sedimentary rocks in the Coast Range batholith are not only proving correct, but the occurrences are much more numerous and extensive than the reports of those authorities indicated some years ago.

Prospectors should be interested in these facts, but bear in mind that in order to find ore of a commercial value it is necessary to climb to the higher elevations and search for contacts between the granodiorite and altered sedimentary rocks. It also appears that the higher values are associated with quartz gangue, for while the iron pyrites occurs in great abundance in the schists, the material carries very little chalcopyrite, except when the gangue is almost entirely of massive quartz, in which the structure has a tendency towards the ribbon or banded variety.

Area and Title.—The *Radiant* group contains six mineral claims, or about 300 acres; the *Contact* group contains four claims, or about 200 acres; and the *Bruce* group also contains four claims, or about 200 acres. The *Radiant* and *Contact* groups of mineral claims are owned by O. W. Rafuse and associates, of Vancouver. The *Bruce* group is owned by D. McCallum, of Squamish; Dan McKinnon and A. H. McKinnon, of Vancouver.

Geography.—The *Radiant* group of mineral claims is in the mountains paralleling the Stawamus river on the northerly side of the river; the *Bruce* group adjoins the *Radiant* group on the north-easterly side and its southerly boundary is on the south side of Ray creek, a torrential stream emptying into the Stawamus river about 5 miles in an easterly direction from the mouth of that river on the east side of the head of Howe sound near Squamish, the western terminal of the Pacific Great Eastern Railway; the *Contact* group adjoins the *Bruce* group on the easterly side and extends in an easterly direction towards the head of Ray creek and the summit of the mountain range in which that creek has its source.

The *Radiant*, *Bruce*, and *Contact* groups of mineral claims are reached by pack-horse trails from Squamish, about 2½ miles, to near the dam of the Squamish water-power and electric-light plant on the Stawamus river, where a foot-trail branches towards the south-east into the mountains for a distance of about 3 miles to beyond the cabin on the *Radiant* group, and to a point on Little Ray creek where work is done on the *Bruce No. 2* mineral claim.

Little Ray creek is a mountain stream with a precipitous fall from its source near the summit of the range of mountains, from which it flows in a westerly direction across the *Bruce No. 2* and *No. 3* claims, joining the main Ray creek near the westerly boundary of the *Bruce No. 3* mineral claim.

The mountain range to the easterly from the groups of mineral claims rises to an elevation of about 5,000 feet above sea-level, with some peaks reaching an altitude of over 6,000 feet. The altitude of the prospecting-work done on the *Bruce* and *Contact* groups is about 3,000 feet above sea-level.

Geology.—There is an exceptionally good opportunity afforded on the *Radiant*, *Bruce*, and *Contact* groups of mineral claims to study the geology of that section, for the reason that Ray

creek practically crosscuts the rock formation for a distance of about a mile. The creek flows generally from east to west, while the strike of the bands of argillites, quartzites, and talc-schists exposed in both of the steep banks of the creek is north-westerly and dip varying from about 65° towards south-west to vertical.

The granodiorite of the Coast Range batholith is exposed in the narrow valley of the Stawamus river, and the country-rock for about half a mile up Ray creek from its junction with the Stawamus is made up of similar rock, but at this point there is a well-defined contact between the granodiorite and a band of sedimentaries in which argillite, quartzite, and a talcose schist predominate. As the bed of the creek is followed up towards its head in high mountains to the east, the band of sedimentaries is crosscut to a point where another contact occurs near the head of Ray creek between the sedimentaries and granodiorite.

It is noticeable that at the lower elevation the schist is extremely talcose, but as higher elevations are reached there occur more quartz and quartzite in the country-rock, and the schist becomes more siliceous and quartz kidneys often occur as inclusions in the schist. It is in the latter class of country-rock that mineralization is the most pronounced.

Ore-deposits.—Mineralization occurs generally in the bands of schist. This mineralization at the lower elevations consists entirely of iron pyrite usually disseminated through the schist gangue in small particles, but sometimes occurring massive in lumps of considerable size of practically solid iron sulphide. Several samples assayed at various times of this variety of the mineralization have failed to show any values except iron and sulphur.

Owing to the great width of mineralized schist crosscut by Ray creek, intensive surface prospecting has been carried on for the past three years, and it has been proven that at higher elevations near the head of Ray creek, approaching the contact on the north-easterly side of the sedimentary belt, the mineralization includes chalcopyrite associated with iron pyrites, some samples of which carry satisfactory values in copper.

The extent of the deposits of ore carrying copper values is as yet undetermined; apparently there are several belts of schist which carry the mineral and occur within a width of about 600 feet. In each of these various belts there appears to be a concentration of the mineralization varying in width. Most of the mineralized belts can be superficially examined from the creek-bed, but as the banks for the most part are so precipitous as to form a canyon which can only be travelled during extreme low water, it is impossible to satisfactorily determine the extent of the ore-bodies except by actual work of drifting and crosscutting.

The occurrence of the mineralization in which chalcopyrite in appreciable quantity occurs associated with iron pyrites are found on the *Bruce No. 2* and *Bruce No. 1* claims of the *Bruce* group, also on the *Dorothy* claim of the *Contact* group.

Samples and Assays.—Six samples were taken from the *Dorothy* claim, one from the *Bruce No. 1*, and one from the *Bruce No. 2* claims, which assayed as follows:—No. 1, *Dorothy* claim: Gold, *nil;* silver, *nil;* copper, 0.1 per cent. No. 2, *Dorothy* claim: Gold, trace; silver, trace; copper, 0.5 per cent. No. 3, *Dorothy* claim: Gold, trace; silver, trace; copper, 5.6 per cent. No. 4, *Dorothy* claim: Gold, trace; silver, 1.6 oz.; copper, 6.8 per cent. No. 5, *Dorothy* claim: Gold, trace; silver, 0.8 oz.; copper, 3.5 per cent. No. 6, *Dorothy* claim: Gold, trace; silver, trace; copper, 2 per cent. No. 7, *Bruce No. 1* claim: Gold, trace; silver, trace; copper, 0.4 per cent. No. 8, *Bruce No. 2* claim: Gold, trace; silver, trace; copper, 1 per cent.

Development-work.—The development-work on the *Radiant* group consists of a series of open-cuts for prospecting; these open-cuts vary in size; one of the largest is 26 feet long, 5 feet wide, and from 6 to 12 feet deep.

The development-work on the *Bruce* group consists of two adits and several open-cuts in the banks of Ray and Little Ray creeks. One adit on the *Bruce No. 3* claim is 36 feet long as a drift, from which there is a crosscut 12 feet long; the other adit on the *Bruce No. 2* claim is 25 feet long as a drift.

The development-work on the *Contact* group is confined to several open-cuts on the *Dorothy* claim. These cuts have been made into the steep banks of Ray creeks on both sides of the creek, in an effort to determine the location of the pay-shoots, also to gain some idea of the extent of the mineralization.

NEW WESTMINSTER MINING DIVISION.

The mining industry in the New Westminster Mining Division during 1921 has not shown the activity which was anticipated at the beginning of the year, when it was expected that the

Guggenheim interests would complete negotiations for the *Lucky Four* group of mineral claims in the Cheam range of mountains, which forms the watershed between the Fraser and Chilliwack rivers. The negotiations were cancelled, and consequently the development-work on that group has not been carried on to any great extent during 1921.

Some prospecting was done in the Fire Mountain section, near the head of Harrison lake, on some of the gold-bearing quartz veins in the vicinity of the old *Money Spinner* mineral claim, which was prominent in 1897 and 1898. It is the intention of the syndicate, the writer is informed, to continue the work during 1922.

Indian River Section.

Indian River section of the New Westminster Mining Division was first prospected about 1910, when S. A. Habrich and partner were engaged in prospecting on the headwaters and located the *Belle* group of mineral claims. It was not until 1912 or 1913 that the section was given much more attention. Then several other prospectors staked mineral claims in the mountains paralleling both sides of the river wherever outcroppings indicated the occurrence of deposits of copper-sulphide ores.

Habrich figured that the *Belle* group of mineral claims was located on an extension of the Britannia mineralized zone and in the same geologic formation, but later prospecting showed indications that the Britannia belt was separated from the mineralized zone in which the *Belle* group is situated by a belt of granodiorite on the west of the last-named group.

The rocks occurring on the *Belle* group, as classified by Chas. Camsell,* "consist of argillite, greenstone, and limestone that is metamorphosed by the development in it of much quartz and biotite."

Prospecting later than 1913 showed that apparently an extension of the Britannia mineralized zone did occur in the mountains adjacent to Indian river a few miles south-easterly from the *Belle* group, and investigations made by mining engineers in the employ of the Britannia Mining and Smelting Company resulted in the purchase by that company of the several groups of mineral claims on Indian river shown in the accompanying sketch-map.

Similar geologic formations to those occurring in the Britannia mineralized zone occur in a zone on the several groups shown on the map, but there is a presumably wide belt of granodiorite separating the known eastern boundary of the Britannia belt from the Indian River mineralized zone, although but little is really known of that mountainous section in the vicinity of Loch Lomond and the headwaters of the West and East forks of Seymour creek.

Geography.—Indian river has its source in the mountains about 12 miles south-easterly from Squamish, the ocean terminus of the Pacific Great Eastern Railway at the head of Howe sound, and about 4 miles north-easterly from Loch Lomond. The course of the river is south-easterly to its mouth at the head of the North arm of Burrard inlet. Its total length is about 20 miles. The river occupies a heavily wooded valley in the Coast range of mountains, the peaks of which rise to elevations of from 3,000 to 4,000 feet above sea-level on either side.

The groups of mineral claims on Indian river are reached either from Squamish by way of the Squamish–Stawamus pack-horse trail to the divide and down Indian river, or by launch from Vancouver to the head of the North arm of Burrard inlet to the terminus of an old wagon-road 6 miles long; then pack-horse trail up the river to the cabin on the *Caledonian No. 1* mineral claim, distant 11 miles from the mouth of the river. On this mineral claim occurs the south-eastern boundary, so far as known at present, of the mineralized zone.

Geology.—The geology of the Indian River section is described by Chas. Camsell* when he made a trip from Squamish to the mouth of Indian river and examined the *Belle*, *Bulliondale*, *London*, and *Roy* groups of mineral claims. Later in 1917 the same trip and examinations were made by the writer of this report, whose report was published in the Annual Report of the Minister of Mines for that year, pages 275–278.

Development-work.—Since 1917 the Britannia Mining and Smelting Company has acquired by purchase and Crown-granted all of the groups of mineral claims referred to, except the *Belle*, *Bulliondale*, and *London* groups. The company has since then carried out considerable systematic development-work on several of the claims in order to determine important data relative to the extent of the mineralized zone and the values carried by the deposits of copper-sulphide ores that occur in the zone.

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* Camsell, C., Geol. Surv., Can., Sum. Rept., 1917, pages 23B to 25B.

VICTORIA MINING DIVISION.

About the only work of any importance that was performed in the Victoria Mining Division during 1921 was that done on the *Gabbro* group of mineral claims on Jordan river, about 40 miles from Victoria, and the work done by W. G. Dickenson on the deposits of talc on Wolf creek, a tributary of the Sooke river.

Gabbro Group.

This group contains twenty-three mineral claims and adjoins the *Sunloch* group. The *Gabbro* group extends on both sides of the Jordan river and is located down the river from the *Sunloch* group. During 1921 prospecting-work done on the *Vulcan No. 2* and *No. 3* mineral claims of the group exposed a body of pyrrhotite ore in what is known as the Stewart ore-zone, one sample from which assayed: Copper, 2.3 per cent.; nickel, 0.58 per cent.; and another, nickel 0.45 per cent. This body of ore has a maximum width of 30 feet and minimum of 12 feet, as exposed by four open-cuts in the mountain-side about 250 feet above the Sunloch Company's tramway. Nickeliferous ore is also found in pyrrhotite on the Winkler ore-zone in the south-east corner of the *Vulcan No. 2* mineral claim. These ore-zones occur in the gabbro country-rock near the contact between it and the Metchosin volcanics, in which the ore-bodies on the adjoining *Sunloch* group occur.

On the *Vulcan No. 6* claim of the *Gabbro* group a body of copper-sulphide ore of commercial grade is exposed in an open crosscut 25 feet long, 8 to 10 feet deep by 4 feet wide. The ore-body as shown in the cut is 6 feet wide.

On the *Vulcan No. 5* claim of the *Gabbro* group a body of copper-sulphide ore averaging about 3 per cent. in copper is exposed by open-cuts. This body of ore is apparently an extension of the Cave ore-zone, which occurs on the adjoining *Sunloch* group. The ore-body has been opened up on the river-level, where the ore is about 10 feet wide; it has also been opened up on the mountain-side about 200 feet above the river, where the ore is about 9 feet wide.

Several open-cuts have been made on the *Hornet Fraction* and *Cliff Fraction* claims of the *Gabbro* group, as well as on the Turnbull ore-zone, which occurs in basalt country-rock south-westerly from the Cave ore-zone on the *Sunloch* group.

During 1921 a commodious log cabin was built on the *Vulcan No. 6* claim of the *Gabbro* group. This is on the mountain-side about 500 or 600 feet higher than the bridge across the Jordan river on the *Sunloch* group of mineral claims.

OCHRE-DEPOSIT ON DEMANIEL CREEK.

On October 9th and 10th, 1921, the writer examined a deposit of yellow ochreous clay or impure bog-iron ore on Demaniel and Stony creeks, in the Otter district of the Victoria Mining Division, near the Sooke Post-office, about 3 miles westerly from the track of the Canadian National Railway and 26 miles from Victoria by auto-road.

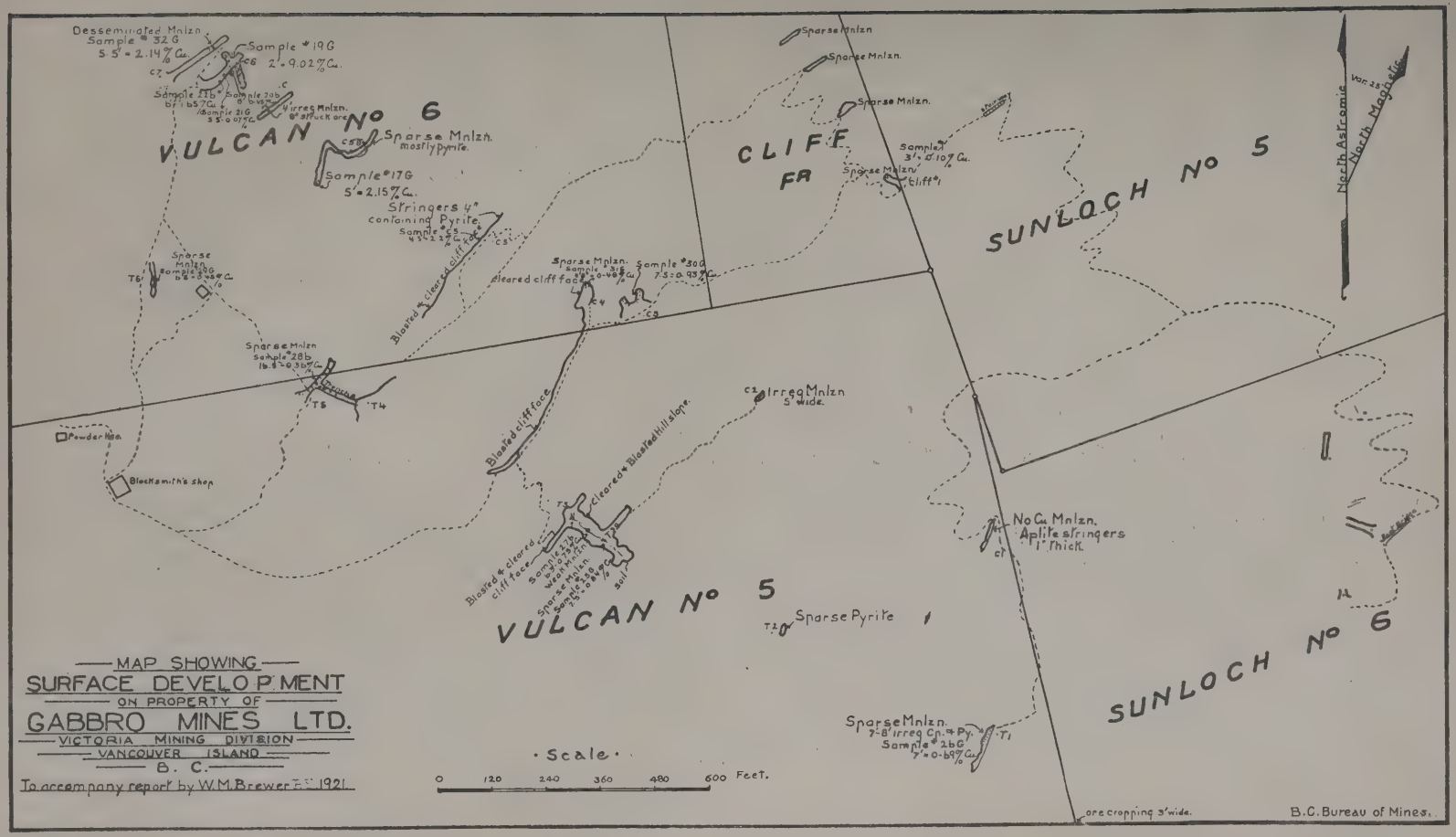
The property is made up of the *Florence* mineral claim, owned by Dan. Campbell, of Victoria, and staked on Demaniel creek at a point about half a mile southerly from Young lake, and where the creek flows from south-west (mag.) to north-east and within a few yards of the Victoria–Jordan River auto-road, also a land lot traversed by Stony creek, which flows into Demaniel creek about three-quarters of a mile north-east from the deposit on Demaniel.

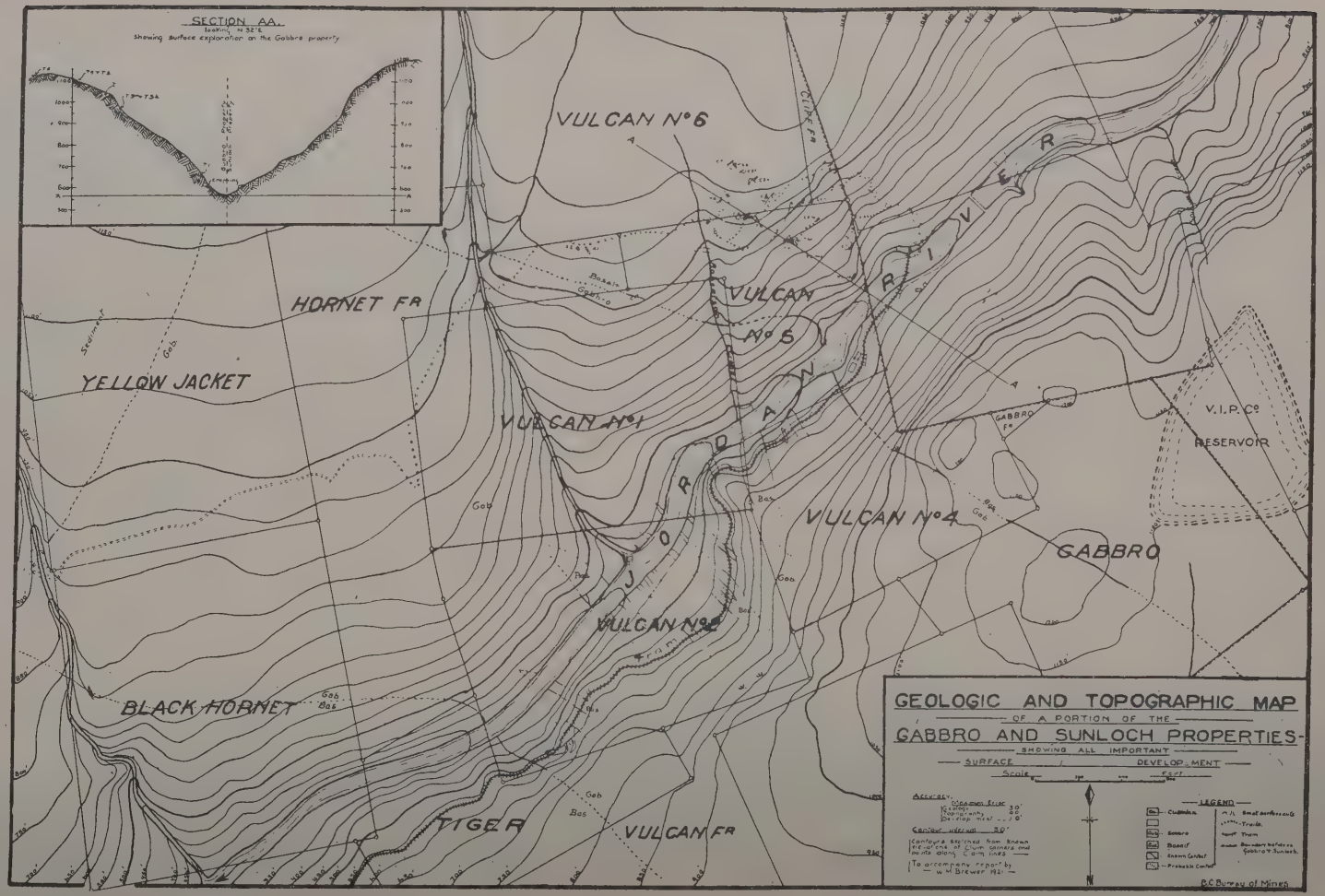
The deposit was examined by Chas. H. Clapp about 1910 and is reported on in Memoir No. 13, "Southern Vancouver Island," Canada Geological Survey, 1912, page 198, under the heading "Pigments."

In his report Clapp says: "The deposit consists of a very fine-grained clay, with which is mixed fairly uniformly bog-iron ore or limonite. Limonite also occurs in small concretions. An analysis of a sample from the deposit showed the iron content to be 15.5 per cent. Near the surface the deposit contains angular fragments of the Metchosin volcanics, but these have doubtless been washed in by the Demaniel river during times of high water and they do not continue in depth. The material has been deposited during late Pleistocene or recent times in a bog which probably represented the end stage in the filling-up of one of the transient lakes which collected in the hollows of the drift-mantel at the close of the period of glacial occupation. The material could readily be washed and purified, and the product, although valueless as an iron ore on account of its low iron content, would make a good base for coloured paints."

DEMANIEL CREEK DEPOSIT.

The examination made by the writer was mainly with a view of determining as far as possible from a superficial examination the probable or possible extent of the deposit or deposits.


Desseminated Mnlzn
Sample # 32 G
5·5' = 2.14% Cu.
Sample # 19 G
2' = 9.02% Cu.
Sample 21b
Sample 20b
Sample 21G
Irreg Mnlzn.
Sparse Mnlzn.
mostly Pyrite.
Sample # 17G
5' = 2.15% Cu.
Stringers 4"
containing Pyrite
Sample 18
Sparse Mnlzn.
Sample 22b
Sample 28b
Blasted & cleared cliff face
Cleared cliff face
Sparse Mnlzn.
Sample # 30G
7'=0.93% Cu.
Sparse Mnlzn.
Sample 28b
Powder Hse.
Blacksmith's shop
Blasted cliff face
Cleared & Blasted Hill slope
Irreg Mnlzn
5' wide.
Blasted & cleared cliff face
Sample 27b
Sparse Mnlzn.
Sample 29b
Sparse Mnlzn.
Sample # 31b
Sparse Mnlzn.
Sparse Mnlzn.
Sparse Mnlzn.
Sample # 31b
3'=0.10% Cu.
Sparse Mnlzn.
Cliff #1
North Astoramie
Var. 25° E
North Magnetic
No Cu Mnlzn.
Aplite stringers
1" thick.
Sparse Pyrite
Sparse Mnlzn.
7'-8' irreg Cp. & Py.
Sample # 26G
7'=0.69% Cu.
ore cropping 3' wide.
VULCAN No 6
CLIFF
FR
SUNLOCH No 5
VULCAN No 5
SUNLOCH No 6
MAP SHOWING
SURFACE DEVELOPMENT
ON PROPERTY OF
GABBRO MINES LTD.
VICTORIA MINING DIVISION
VANCOUVER ISLAND
B. C.
To accompany report by W.M. Brewer Esq. 1921.
Scale.
0 120 240 360 480 600 Feet.
B.C. Bureau of Mines.


SECTION AA.
looking N 32° E
showing surface exploration on the Gabbro property
VULCAN N°6
VULCAN N°5
VULCAN N°1
VULCAN N°4
VULCAN N°2
HORNET FR
YELLOW JACKET
BLACK HORNET
TIGER
VULCAN FR
GABBRO
V.I.P. Co RESERVOIR
GEOLOGIC AND TOPOGRAPHIC MAP
OF A PORTION OF THE
GABBRO AND SUNLOCH PROPERTIES
SHOWING ALL IMPORTANT
SURFACE DEVELOPMENT
LEGEND
B.C. Bureau of Mines

As the development-work which had been done some time back in the bed of Demaniel creek has been obliterated, several holes were bored during the examination with an earth-boring auger into the outcroppings along the south-easterly bank of the creek, also the face of a bluff about 150 feet north-easterly from the discovery post was dug into to ascertain some data with regard to the continuity of the deposit in that direction. Samples of the ochreous clay were taken for the purpose of analysis.

In the bed of Demaniel creek and along the south-easterly bank the outcroppings of the deposit are continuous for about 300 feet in a south-westerly direction from the discovery post, and for an average width of about 40 feet, which width in places is apparently considerably greater, but the outcroppings are not exposed without a break; for example, in a pig-pen some 50 feet or so from the south-easterly bank of the creek and in the same direction the ochreous material outcrops, but is not exposed between the pig-pen and the discovery post, the surface there being covered by rocks and soil and no prospecting-work done.

About 100 feet north-easterly from the discovery post the course of the creek is deflected towards the east, the water flowing around a low bluff which is about 40 feet high. By digging into the almost vertical face of this bluff the ochreous material was exposed for a width of 40 feet, and was also exposed by a shallow hole dug on the flat at the top of the bluff about 20 feet back from its face, where the timber has been logged off.

From these data it is apparent that the strike of the deposit is north-easterly, with dip in a north-westerly (mag.) direction, but the exposures are not sufficiently opened up to determine the angle of the dip.

Holes bored into the outcroppings along the south-easterly bank of the creek during the examination showed that the thickness of the ochreous material exceeded 3 feet, with no change at that depth.

It is not possible in the present condition as to work to determine the tonnage in sight, but from the foregoing it will be seen that the probable or possible tonnage is quite considerable; ample, in fact, to warrant mining operations and guarantee a supply equal to any reasonable demand for some time to come.

Stony Creek Deposit.

On a small creek known as Stony creek, a tributary of Demaniel creek, into which it flows, about three-quarters of a mile in a north-easterly (mag.) direction from the outcroppings of the ochreous deposit exposed in that creek, similar outcroppings occur. These can be traced along the steep south-easterly bank of Stony creek for a considerable distance, striking in a north-easterly (mag.) direction, but no work has been done to determine any material facts as to extent in width or depth. Apparently the deposit on Stony creek may occur as paralleling that on Demaniel creek, or it may be found after systematic prospecting has been done that the first mentioned is an extension of last named. In any event it is evident that the Stony Creek occurrence will materially increase the quantity of ochreous material that can be easily mined and transported from the district.

The Stony Creek deposit occurs on Crown-granted land owned by Dan. Campbell, of Victoria, who also owns the deposit on Demaniel creek.

List of Samples, with Assay Results.

Nos. 1 and 2, from *Florence* mineral claim, taken from the south-eastern bank of Demaniel creek:—No. 1: Manganese, trace; iron oxide, 12.87 per cent.; silica, 35 per cent.; alumina, 32.73 per cent. No. 2: Manganese, trace; iron oxide, 17.2 per cent.; silica, 28.5 per cent.; alumina, 26.8 per cent.

No. 3, from *Florence* mineral claim, taken from the face of bluff outcrop, about 150 feet north-easterly (mag.) from the discovery post: Maganese, trace; iron oxide, 21.45 per cent.; silica, 26.5 per cent.; alumina, 38.55 per cent.

No. 4, from bank of Stony creek: Manganese, trace; iron oxide, 27.2 per cent.; silica, 28 per cent.; alumina, 31.2 per cent.

ALBERNI DISTRICT.

ALBERNI MINING DIVISION.

REPORT BY A. G. FREEZE, GOLD COMMISSIONER.

I have the honour to submit a brief annual report on mining in the Alberni Mining Division during the year ending December 31st, 1921.

Big J. Group.—This group of claims, situated 10 miles north-westerly from the head of Great Central lake, which was formerly held under bond by the Consolidated Mining and Smelting Company, Limited, of Trail, has reverted to the original owners, M. Tebo and J. A. Drinkwater. Nothing has been done on the group during the year except the annual assessment-work.

Monitor Group.—Nothing has been done on this group during the year.

W.W.W. Group.—This group, which has lain idle for a number of years, was purchased at tax sale last year by J. H. Davey, Jr., who has sold to a Mr. McLeod, who, I understand, intends to develop it during the coming year.

OFFICE STATISTICS—ALBERNI MINING DIVISION.

Mineral claims recorded	2
Certificates of work recorded	31
Free miners' certificates issued	40
Bills of sale recorded	3

Revenue.

Mining receipts, general	$150 25
Free miners' certificates	158 75
Total	$309 00

CLAYOQUOT MINING DIVISION.

REPORT OF WALTER DAWLEY, MINING RECORDER.

I have the honour to submit the annual report on mining operations in the Clayoquot Mining Division for the year ending December 31st, 1921.

Bear group of mineral claims, owned by Chas. Sundwell and situated on Elk river. Considerable work has been done on these claims this season.

The Woodworth property, owned by J. B. Woodworth and situated on Bear river. Work has been going on for several months installing a plant to treat on the property the ore which carries high values.

The Tidewater Copper Company, on Sidney inlet, is still closed down owing to the low price of copper.

Several placer leases have been staked at Wreck bay.

The annual assessment-work has been done on a number of claims, but there have been no shipments from any of the mines in the district.

OFFICE STATISTICS—CLAYOQUOT MINING DIVISION.

Mineral claims recorded	23
Certificates of work	14
Free miners' certificates issued	24
Transfers recorded	1
Powers of attorney recorded	4
Other receipts issued	3

Revenue.

Mining receipts	$105 75
Free miners' certificates	114 00
Total	$219 75

QUATSINO MINING DIVISION.

REPORT BY ED. EVENSON, MINING RECORDER.

I have the honour to submit the annual report on the mining operations in the Quatsino Mining Division for the year ending December 31st, 1921.

Except the regular assessment, no work has been done on mineral claims in Quatsino Mining Division this past year.

On the *Old Sport* group development-work has been confined to diamond-drilling 900 feet. It has been closed down since June, 1921.

On the *Millington* group, located at Spruce river, at the head of West arm, considerable prospecting-work has been done and the showing is very good; also a road has been built to the mine from the main road from Holberg.

On the *Seal* group, located 3 miles east of Holberg, on the south side of West arm, considerable prospecting-work was done this summer and the showing is very good.

OFFICE STATISTICS—QUATSINO MINING DIVISION.

Mineral claims recorded	23
Certificates of work	75
Powers of attorney and transfers	7
Certificates of improvements	14
Mining receipts	35
Free miners' certificates	62
Special free miners' certificates	1
Total revenue	$900 50

NANAIMO DISTRICT.

NANAIMO MINING DIVISION.

REPORT BY S. McB. SMITH, GOLD COMMISSIONER.

I have the honour to submit herewith the annual report on the mining operations in the Nanaimo Mining Division for the year ending December 31st, 1921.

During the year the mining industry in the Nanaimo Mining Division has not been as active as could be desired. There have been ten placer-mining leases granted to applicants in the north-western portion of Vancouver island in the vicinity of Cape Sutil, formerly known as Cape Commerell. There have also been several applications for placer-mining leases for areas situated in the vicinity of Cape Scott, north-western end of Vancouver island.

Active operations have been carried on at Lasqueti island by Henry Lee, managing director of the Lasqueti Mining Company.

Further prospecting operations have been carried on by the Paramount Mining Company on its groups of mineral claims on Myra and Price creeks, at the head of Buttle lake, Strathcona Park.

The Tatlayoko Lake Gold Mining Company has been engaged during the past year in sawing lumber and making preparations to erect a concentrating-mill on the company's property near the foot of Tatlayoko lake.

Wm. M. Brewer, Resident Engineer, has examined several properties during 1921, and I presume will give detailed descriptions in his annual report. Therefore it is only necessary for me to add the office statistics to this report, which are as follows:—

OFFICE STATISTICS—NANAIMO MINING DIVISION.

Mineral claims recorded	152
Certificates of work recorded	263
Bills of sale, etc., recorded	48
Free miners' certificates recorded	216

Revenue.

Free miners' certificates	$1,008 00
Mining receipts	2,490 20
Total	$3,498 20

VICTORIA DISTRICT.

VICTORIA MINING DIVISION.

Report by Herbert Stanton, Gold Commissioner.

The Resident Engineer, Wm. M. Brewer, having covered this Mining Division in his report, I beg to submit the office statistics for the year 1921.

Office Statistics—Victoria Mining Division.

Free miners' certificates issued	345
Free miners' certificates (special) issued	3
Mineral claims recorded	24
Placer claims recorded	1
Certificates of work recorded	47
Bills of sale recorded	36
Certificates of improvements issued	1

Revenue.

Free miners' certificates	$2,776 25
Mining receipts	554 43
Total	$3,330 68

VANCOUVER MINING DIVISION.

Report by A. P. Grant, Mining Recorder.

I have the honour to submit the following report of the mining operations in the Vancouver Mining Division for the year ending December 31st, 1921:—

The following is a list of the number of claims and the localities in which they are situated:—

Jervis inlet	2
Mill creek	3
Alta lake and Pacific Great Eastern Railway	19
Lynn creek	9
McCartney creek	2
Stawamus river	3
McNab creek	4
North arm	2
Salmon arm	7
Cypress creek	5
Total	56

The snow staying so late on the hills during the last year did not allow prospectors to get out as early as usual, so there were less claims recorded than for some years previously.

The development-work done on the *Attorney* group, situated on Howe sound, was simply the annual assessment-work. This work confirms the opinions of the owners that their properties are part of the *Britannia* formation. They are very heavily mineralized and all have copper.

C. M. Oliver, of the Bowena Mining Company, states that at the *Bowena* copper-mines, Bowen island, repairs to the compresser were made last May and a tramway for bringing in supplies of wood fuel built. A good supply of fuel was laid in and development-work continued up to the end of June. Since that time nothing further has been done, although the lessees of the property hope to resume operations, both mining and milling, as soon as the market price of copper has advanced to 15 cents a pound.

No work was done on the Snug Cove property during 1921, but the company expects to resume development-work early in 1922.

T. W. Lillie, part owner of the *Virgo* and *Jupiter* groups of twelve claims on the west bank of Britain river, Jervis inlet, states: "Work has been done on three different levels—namely, 2,000, 3,500, and 4,500 feet elevation. At the 2,000-foot level the lead is 50 feet in width, carrying gold, silver, lead, zinc, pyrrhotite, and copper. At the 3,500-foot level the lead is 200 feet in width, showing mineral in good quantities all the way across, consisting of copper, galena, gold, platinum, with less zinc. At the 4,500-foot level we have uncovered an 8-foot lead of a very fine grade of galena. The best assays we received were: Chalcopyrite, 17 per cent.; silver, $140; lead, $60; zinc, $40; gold, $18; platinum, $3. The copper also carries: Silver, 23 oz.; gold, $2.50; platinum, $3. We have a fairly good trail up to our claim, built by ourselves."

E. J. Donohue, general manager of the Britannia Mining and Smelting Company, Limited, states: "During the year 47,385 tons of ore was drawn from the mine. The development footages were as follows: Drifts, 1,909 feet; crosscuts, 1,027 feet; raises, 3,194 feet; winzes, 118 feet, which gives a total footage driven of 6,248. There was no diamond-drilling during the period.

"*Mining and Development Work.*—For the first three months of the year there were underground shrinkage stopes in operation, particularly on the 250-foot level. A drift 186 feet long was driven on a 30° slope from the 1,800- to the 1,700-foot level, at which point a crusher-chamber was enlarged for the installation of the 24 by 36 jaw-crusher previously operating on the 1,800-foot level, complementing a 7½ gyratory crusher. A new gyratory crusher, the same type and size as the one in place, is to be set up in the former position of the jaw-crusher. With the above installation it is arranged to give a 2-stage preliminary crushing to the ore, reducing same to 2½-ring before it leaves the mine. In order to bypass the ore through the jaw-crusher it has been necessary to place a heavy reinforced-concrete bulk-head in the Main 68 ore-raise, which directs the ore to the crusher, which in turn discharges its crushed product into the ore-raise below the bulk-head.

"Practically all the development-work done was in the *Victoria* section of the mine, east of the *Fairview* and *Empress*, opening a new body of ore. On the 1,900-foot level a winze is being sunk, through which the ore will be hoisted from the levels below. An aerial tramway is under construction to handle this ore from the *Victoria* to the portal of the 1,600-foot level of the *Empress*.

"Near the entrance to the *Victoria* mine there has been erected a 30,000-foot-capacity sawmill, from which timbers are handled directly to the workings. A 3-story, 30- by 100-foot bunkhouse and a 25 by 40 dry-house have been built to house and care for about sixty-five men.

"During the year the 1,500-foot raise from the 4,100-foot level (elevation top of mill-bins) to the 2,700-foot level (elevation head of incline) was holed through, and is now being put in shape to handle by gravity the total output of the mine, thus eliminating the incline railway as an ore-carrier. No ore is being drawn from the mine at the present time.

"No milling operations were conducted during the year, and on March 19th our Beach concentrator was destroyed by fire of an unknown origin. Shipment was, however, made during 1922 of the following tonnages to the Tacoma smelter, cleaning up the product which was on hand in our bunkers at the close of the year: Tons of ore and concentrates shipped, 6,502, containing 646 oz. gold, 8,362 oz. silver, and 1,476,395 lb. copper.

"Contract has recently been closed with the Canadian Northwest Steel Company for the erection of a 2,500-ton steel-mill to replace the one above mentioned, and it is our intention to install in this fire-proof building the most modern type of milling machinery, embodying equipment much larger than that formerly used. We hope to have the mill in operation during the fall of the present year."

As the details of the horrible accident occurring on October 28th through flood conditions are fresh in your mind, I will not incorporate same in this report.

J. H. Thompson informs me that during the past year his company has been shipping bog-iron ore from its mines near Mons to the gasworks at Tacoma and Seattle, and that arrangements have been completed to ship ore to other gas plants in the Coast States and this Province. This ore is being used as a purifier, and after severe tests and comparisons with other purifiers has been found a much better article.

Conuma River, Nootka Sound.

Powell Lake, Nanaimo M.D.

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From the numerous inquiries made and the widespread interest being taken in mining matters here, the coming season promises to be a busy one among the miners all over the Province.

Office Statistics—Vancouver Mining Division.

Free miners' certificates issued	1,698
Free miners' certificates (special)	13
Free miners' certificates (company)	67
Quartz claims recorded	56
Abandonment recorded	1
Certificates of work issued	226
Surveys recorded as work	2
Receipts issued for money in lieu of work	36
Group notices filed	29
Documents filed	5
Conveyances recorded	19

Revenue.

Free miners' certificates	$13,010 30
Mining receipts	4,414 90
Total	$17,425 20

NEW WESTMINSTER MINING DIVISION.

Report by Irving Wintemute, Mining Recorder.

I have the honour to submit the following report of mining operations in the New Westminster Mining Division for the year ending December 31st, 1921:—

The mineral claims located and recorded during the year are situate in the following places throughout the New Westminster Mining Division: Harrison lake, 35; Jones creek, 8; Agassiz, 5; Pitt lake, 16; Chilliwack lake, 1; Lillooet river, 26.

There has been a slight increase in the number of claims recorded over the previous year, while the assessment-work recorded shows a considerable falling-off.

There have been no new developments in the district worthy of special report. Very little has been done beyond some prospecting in the vicinity of Harrison lake and also at Lillooet river and vicinity, where several new claims were located and recorded.

Prospecting for oil has been continued during the year by the Boundary Bay Oil Company, Limited, at Boundary bay, and the Empire Oil and Gas Company near Aldergrove. I am indebted to S. A. Thompson, manager of the Boundary Bay Oil Company, Limited, for the following report of the company's operations at Boundary bay:—

"The Boundary Bay Oil Company, Limited, was formed in 1918 for the purpose of sinking a well to test the Boundary Bay section for oil and natural gas. Prior to the starting of a deep test a number of shallow wells were sunk to gather information of the structural conditions existing. A location on Lot 578, New Westminster District, was decided on. This location is on the tidal flats of Boundary bay and being about 15 miles in a south-easterly direction from the city of Vancouver.

"During the year of 1920 a well was sunk to the depth of 2,473 feet and was finally abandoned owing to casing trouble. The geological conditions encountered were favourable and indicated that a deeper test should be put down on a location in the immediate vicinity.

"The 116-foot derrick used on well No. 1 was moved 65 feet and well No. 2 was started on the 5th day of April, 1921. At the time of making this report, January 25th, 1922, a 10-inch hole had been sunk to a depth of 3,831 feet.

"The conglomerates met at a depth of 2,150 feet evidently mark the lowest strata of the Pliocene, and the 36-foot limestone and marine shells thereafter entered by the drill evidently mark the upper strata of the Miocene. Shells of Lamellibranchs from this horizon appear to be the *Tellina (Angulus) producta* of Conrad, and a broken fragment of a larger shell appears to represent the *Spisula (Hemimactra) marylandica* of Dall.

"At a depth of 2,417 feet a sand carrying gas under considerable pressure was encountered. An analysis of the gas gave the following results:—

	Per Cent.
Paraffins (mainly methane)	85.2
Ethane	Trace.
Oxygen	3.2
Nitrogen	11.4
Carbon	None.
Carbon dioxide	Trace.

"The above results show that the sample submitted is chiefly natural gas mixed with about 14 per cent. of air.

"From 2,500 feet down to 3,831 feet was found a series of brown shales, blue shales, limestones, brown gumbo, gypsum, blue gumbo, black bituminous shales, steatite, shale and shells, chalk rock, yellow gumbo, sandy shales, and sandstone. Below the 3,700-foot horizon 130 feet of sandy shale and sandstone all carried gas under very high pressure, and also some oil of high gravity and of a paraffin base.

"The drilling equipment is composed of a No. 5 Union Tool rotary. The motive power is supplied by two horizontal tubular boilers (120 horse-power) connected with a 12- by 12-inch engine and two 12- by 6¾- by 12-inch mud-pumps."

OFFICE STATISTICS—NEW WESTMINSTER MINING DIVISION.

Free miners' certificates issued	171
Mineral claims recorded	91
Certificates of work issued	65
Conveyances, etc., recorded	33
Grouping notices filed	3
Certificates of improvements issued	1

Revenue.

Free miners' certificates	$ 726 00
Mining receipts	594 30
Total	$1,320 30

INSPECTION OF MINES.

REPORT BY JAMES McGREGOR, CHIEF INSPECTOR.

I have the honour to submit my annual report as Chief Inspector of Mines for the Province for the year 1921.

Appended are the District Inspectors' reports on the condition of the mines in their respective districts in regard to safety and sanitation, the number of persons employed in and around the coal and metalliferous mines, the tonnage of coal mined, lists of fatal accidents and prosecutions, and the reports of the Instructors in Mine-rescue and First-aid Work.

PERSONNEL OF STAFF OF INSPECTORS AND INSTRUCTORS.

Inspectors.

James McGregor	Chief Inspector.
Robert Strachan	Senior Inspector, Fernie (Kootenay and Boundary Districts).
John McDonald	Inspector, Fernie.
H. H. Johnstone	Temporary Inspector, Rossland.
Henry Devlin	Inspector, Nanaimo.
Thomas R. Jackson	Inspector, Nanaimo.
J. G. Biggs	Inspector, Merritt.
Thomas J. Shenton	Inspector, Prince Rupert.

Instructors, Mine-rescue Stations.

J. T. Puckey	Instructor, Fernie.
John D. Stewart	Instructor, Nanaimo.
John Thompson	Instructor, Cumberland.
W. C. Stone	Instructor, Middlesboro.

By amendment to the "Coal-mines Regulation Act" during 1919 the Board of Examiners for coal-mine officials and miners was placed under the jurisdiction of the Inspection Branch. The personnel of the Board of Examiners for coal-mine officials is as follows:—

James McGregor, Chairman.
James Dickson, Secretary, Member of Board, and Acting Inspector of Mines.
Harry E. Miard, Member of Board and Acting Inspector of Mines.

Messrs. Dickson and Miard and the District Inspector for the district in which an examination is being held form the Board for granting certificates of competency to coal-miners. An Inspector of Mines is empowered to grant provisional certificates to miners for a period not exceeding sixty days between regular examinations.

There have been no changes in the inspection staff and no new appointments made during the year.

TONNAGE OF COAL PRODUCED.

The gross tonnage mined by the coal-mines of the Province for the year 1921 amounted to 2,569,639 tons, being a decrease from the previous year of 127,135 tons, mainly due to stagnation of general trade, there being no labour troubles, strikes, or lock-outs during the year.

The Coast District, which includes Nicola-Princeton, Vancouver Island, and Aveling, produced 1,809,884 tons, a decrease of 39,501 tons compared with the previous year.

The Vancouver Island collieries produced during the year 1,625,931 tons, showing a decrease compared with the previous year of 72,323 tons.

The Aveling mines in the Northern District produced 800 tons for the year, being a decrease compared with the previous year of 600 tons.

The Crowsnest Pass District produced during the year 759,775 tons, being a decrease of 87,634 tons compared with the previous year. The principal decrease was at the Corbin mines, which had a decrease of 83,683 tons out of a total decrease for the district of 87,634 tons.

ACCIDENTS IN COAL AND METALLIFEROUS MINES.

The compilation of tables showing number and character of accidents in coal and metalliferous mines in British Columbia is undertaken by the Workmen's Compensation Board under

the "Workmen's Compensation Act." The fatal accidents only will be dealt with in my annual report in connection with tonnage and persons employed, as shown by the following tables.

FATAL ACCIDENTS IN AND AROUND COAL-MINES.

The fatalities in and around coal-mines during the year totalled ten. There were 6,885 men employed in and around the coal-mines.

The ratio of accidents per 1,000 persons employed was 1.45, compared with 2.67 in 1920; in 1919 the ratio was 2,103, in 1918 the ratio was 5,159, and in 1917 it was 8.51. The ratio for the last ten years was 4.81.

The following table shows the collieries at which fatal accidents occurred during 1921, and their relation to accidents which occurred in 1920:—

Name of Company.	Name of Colliery.	1921.	1920.
Canadian Collieries (D.), Ltd	Comox	4	3
Canadian Collieries (D.), Ltd	Extension	1	2
Western Fuel Corporation of Canada	Nanaimo	..	4
Pacific Coast Coal Mines	South Wellington	..	2
Middlesboro Collieries Co.	Middlesboro	..	1
Crow's Nest Pass Coal Co.	Coal Creek	2	2
Crow's Nest Pass Coal Co.	Michel	..	1
Granby Collieries	Cassidy	3	2
Totals		10	17

The following table shows the various causes of fatal accidents in coal-mines and the percentage of the whole, with corresponding figures for the previous year:—

Cause.	1921.		1920.	
	No.	Per Cent.	No.	Per Cent.
Fall of rock	6	60	8	47.06
Mine-cars and haulage	4	40	5	29.42
Fall of coal	..	..	2	11.76
Material falling in shaft	..	..	1	5.88
Fell from scaffold	..	..	1	5.88
Totals	10	100	17	100.00

The number of tons of coal mined for each fatal accident during the year 1921 was 256,963 tons, compared with 158,633 tons in 1920.

FATAL ACCIDENTS IN METALLIFEROUS MINES.

There were three fatal accidents in the metalliferous mines of the Province during the year 1921, being a decrease of two compared with the year 1920.

There were 2,099 persons employed in and around the metalliferous mines, a decrease of 1,242 compared with the previous year. Fatal accidents were three.

The ratio of fatal accidents per 1,000 persons employed was 1.43, compared with 1.54 in 1920. The ratio for the last ten-year period was 2.89.

The mines at which fatalities occurred are:—

Mining Division.	Mine.	No. of Accidents.
Slocan	Rambler-Cariboo	1
Skeena	Surf Inlet	1
Vancouver	Britannia	1
Total		3

The following table gives the cause and percentage to the whole of the fatal accidents in metalliferous mines, with corresponding figures for 1920:—

Cause.	1921.		1920.	
	No.	Per Cent.	No.	Per Cent.
Falls of ground	2	66.67	2	40.00
By falling into chutes, raises, winzes	..	....	1	20.00
By mine-cars and haulage	1	33.33	..	....
Material falling in shaft	..	....	..	....
By cage in shaft	..	....	1	20.00
By explosion of powder	..	....	..	....
By explosion of gas	..	....	..	....
Miscellaneous (surface)	..	....	1	20.00
Totals	3	100.00	5	100.00

There were two fatal accidents from falling ground in metalliferous mines during the year 1921 and one from mine-cars and haulage.

There were no fatal accidents from explosions of powder, making four years in succession without a fatal accident from that cause.

The output from the metalliferous mines for the year 1921 was 1,562,645 tons, compared with 2,178,187 tons in 1920, showing a decrease of 615,642 tons.

The number of tons of ore mined for each fatal accident in 1921 was 520,881 tons, compared with 435,637 tons in 1920, an increase of 85,244 tons.

Explosives.

The following table shows the quantity of explosives used in the coal-mines of the Province during the year 1921, together with the number of shots fired, how shots were fired, tons of coal produced by pound of explosive used, and the average pounds of explosive per shot fired:—

District.	Quantity of Explosive used in Pounds.	Tonnage for District.	No. of Shots fired by Electricity.	No. of Shots fired by Fuse.	Total No. of Shots fired.	Tons of Coal per Pound of Explosive.	Average Pounds of Explosive per Shot fired.
Vancouver Island	483,964	1,811,618	650,290	...	650,290	2.79	0.74
East Kootenay	25,128	759,755	32,803	...	32,803	30.00	0.75
Nicola-Princeton	73,812	183,153	92,680	...	92,680	2.48	0.79
Northern District	.....	.....	.....	...	.....	... ..	....
Totals	582,904	.....	775,773	...	775,773	4.41	0.75

The production of coal per pound of explosive used is less than that of the previous year.

The East Kootenay District shows a decrease of 24.72 tons per pound of explosive used, the yield being 12.56, compared with 37.28 tons for 1920. This is entirely accounted for by the Corbin mines having abandoned the quarrying or steam-shovelling system, having now commenced mining under cover.

The Nicola-Princeton District shows a decrease of 0.63 ton per pound of explosive used, the yield being 3.11 tons, compared with 3.74 tons in 1920.

The Vancouver Island mines show a decrease of 0.46 ton per pound of explosive used, the yield being 2.79 tons, compared with 3.25 tons in 1920.

The estimated yield at Aveling is 4 tons per pound of explosive used.

During the year 1921 one additional explosive was added to the permitted list for British Columbia, known on the United States permitted list as Coalite "E" L.F. This powder is

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manufactured by the Giant Powder Company. The full list of explosives now permitted is as follows:—

Monobel A1	British List.
Monobel No. 1	"
Dynobel No. 4	"
Polar Permitite	"
Coalite "E" L.F.	United States List.
Monobel	" "
Coalite "A" L.F.	" "
Monobel No. 4	" "
"Giant" Coal-mine Powder No. 5	" "
"Giant" Coal-mine Powder No. 6	" "
"Giant" Coal-mine Powder No. 7	" "
"Giant" Coal-mine Powder No. 8	" "
"Giant" Coal-mine Powder No. 9	" "
Polar Brushite	" "
Vigorite No. 1	" "
Vigorite No. 2	" "
Vigorite No. 3	" "
Vigorite No. 4	" "
Miner's Friend No. 1	" "
Miner's Friend No. 2	" "
Miner's Friend No. 3	" "
Miner's Friend No. 6	" "
Miner's Friend No. 7	" "
Viking No. 1	" "

SAFETY-LAMPS.

The following table shows the distribution of lamps by districts, method of locking, and the illuminant used:—

District.	Magnetic.	Screw or Automatic Clip.	Naphtha.	Electricity
Crowsnest Pass	100	1,292	100	1,292
Nicola-Princeton	59	495	59	495
Vancouver Island	487	2,937	487	2,937
Totals	646	4,724	646	4,724

The Edison electric cap-lamp is still finding great favour, both with the operator and workmen underground, and has proven beyond the experimental stage to be a very efficient and safe lamp.

MINE-AIR SAMPLING.

The same system in taking air samples has been followed as in the past year throughout the Province. Careful checking has been continued between the chemical analysis received from the laboratory at Ottawa and the results from the Burrell gas-detector in use in the different mines of the Province. The difference between the test made at the laboratory at Ottawa and the readings of the Burrell gas-detector with reference to the amount of CH_4 contained in the mine atmosphere does not vary more than one-tenth of 1 per cent.

The Inspector of each coal-mining district is supplied with the Burrell gas-detector, also each of the coal-mining companies have them in use for making its own tests.

During the year 1919 the Hon. William Sloan, Minister of Mines, had a chart prepared in booklet form and issued to the officials and workmen, showing the length of flame-cap on a Wolf safety-lamp for the different percentages up to 2½ per cent. This chart was compiled from actual tests covering nearly two years.

The following table shows the data obtained from the mine-air samples in coal-mines during the year 1921:—

RETURNS FROM MINE-AIR SAMPLES TAKEN IN THE VARIOUS COAL-MINES OF THE CROWSNEST DISTRICT DURING THE YEAR 1921.

Sample No.	Date	Mine.	Ventilating District.	Working or Idle.	Tonnage per Day.	Tonnage of Split per Day.	Chemical Analysis.				Velocity of Air in Feet per Minute.	Quantity of Air in Cubic Feet per Minute.	Barometer.	Hygrometer.			Cubic Feet of Methane per Minute.	Cubic Feet of Methane per Day.	Cubic Feet of Methane per Ton of Coal mined.
							CO_2.	O.	CH_4.	N.				Wet Bulb.	Dry Bulb.	Humidity.			
													"	'	'	%			
		Coal Creek.																	
746	Jan 5..	No. 1 South..	Main return	Working .	350	....	0.25	20.07	1.35	78.32	430	25,800	25.20	61.0	62.0	93	388	588,720	1,593
752	" 24..	No. 3.....	South Line split.	" .	320	160	0.16	20.55	0.80	78.49	415	20,750	25.90	61.0	63.0	88	166	239,040	896
753	" 24..	No. 3.....	Main return	" .	320	....	0.21	20.43	0.97	78.39	900	54,000	25.90	61.0	62.0	93	523	753,120	2,350
757	Feb. 9..	No. B Seam..	"	" .	200	....	0.12	20.56	0.78	78.54	600	42,000	25.90	48.0	49.0	93	334	480,960	2,404
763	" 16..	No. 1 South .	"	" .	375	....	0.22	20.28	0.81	78.69	470	28,200	26.00	60.0	61.0	93	218	117,720	322
766	" 18..	No. 2.....	"	" .	350	....	0.24	20.45	0.25	79.06	470	35,250	26.20	54.5	55.0	97	88	126,720	362
771	Mar. 15..	No. 1.....	Whole mine	" .	250	....	0.34	20.31	0.24	79.11	410	17,220	25.90	60.0	61.0	93	41	59,040	236
772	" 15..	No. 9.....	Main return	" .	20	....	0.32	20.67	0.32	78.91	180	9,000	25.90	48.0	49.0	93	2	2,880	144
775	" 17..	No. 2.....	"	" .	350	....	0.25	20.34	0.65	78.76	500	37,520	25.60	52.0	52.0	100	244	348,480	996
778	" 22..	No. B North.	"	" .	220	....	0.18	20.49	0.91	78.42	600	40,800	26.00	48.0	49.0	93	371	534,240	1,427
784	" 23..	No. 1 East...	"	" .	500	....	0.15	20.41	0.89	78.55	1,450	120,300	25.60	52.0	53.0	97	1,070	1,540,800	3,081
787	" 24..	No. 3.....	"	" .	325	....	0.18	20.40	1.11	78.31	840	50,400	25.70	62.0	63.0	93	559	804,960	2,476
796	April 21..	No. 3.....	"	" .	325	....	0.14	20.60	0.63	78.63	900	54,000	25.70	61.0	62.0	93	336	3,402,000	1,047
797	" 25..	No. 1 South .	"	" .	375	....	0.27	20.13	0.99	78.61	460	27,600	25.70	61.0	62.0	93	273	373,120	995
804	May 17..	No. 3.....	"	" .	325	...	0.30	20.35	1.02	78.33	820	49,200	25.80	61.0	62.0	93	497	715,680	2,202
808	" 23 .	No. 1 East...	2nd South	" .	...	135	0.14	20.39	1.58	77.89	300	21,000	26.10	51.0	52.0	93	331	506,640	963
805	" 23..	No. 1 East...	Main return	" .	525	...	0.15	20.49	0.55	78.81	1,300	117,000	26.10	52.0	53.0	93	643	925,920	1,675
828	June 13..	No. 1 East...	"	" .	828	500	0.15	20.39	1.11	78.35	1,500	124,500	26.50	56.0	57.0	93	1,381	1,988,640	3,859
840	Aug. 1..	No. 2.....	"	" .	300	....	0.27	20.32	0.56	78.85	480	40,800	26.00	61.0	62.0	93	228	329,320	1,097
845	" 12..	No. 1 East...	"	" .	635	....	0.19	20.34	1.12	78.35	1,450	120,350	26.20	56.0	57.0	93	1,347	1,939,680	3,054
856	Sept. 8..	No. 1 East...	1st South split	" .	...	105	0.19	20.26	1.32	78.23	350	26,250	25.80	58.0	59.5	90	346	498,240	1,465
858	" 8..	No. 1 East...	Main return	" .	340	....	0.20	20.29	0.82	78.69	1,550	116,250	25.80	57.0	58.0	93	953	1,361,320	4,003
870	" 21..	No. 1 South .	"	" .	400	....	0.38	19.96	1.35	78.31	240	21,600	25.00	61.0	62.0	93	201	290,240	725
881	Oct. 13..	No. 1 South .	Main return, S. Right.	" .	400	....	0.15	20.51	0.35	78.89	250	22,500	25.75	66.0	67.0	93	78	112,320	288
885	" 26..	No. B North.	Main return	" .	275	....	0.15	24.43	1.02	78.40	700	42,000	25.60	50.0	51.0	93	492	617,760	2,246
899	Nov. 14..	No. 2..	Main return junction..	" .	300	....	0.22	20.33	0.55	78.90	560	47,600	25.60	58.0	59.0	93	261	375,840	939
891	" 4..	No. 1 North..	Main return	" .	280	....	0.35	20.20	0.24	79.21	400	20,000	26.00	60.0	61.0	93	48	68,920	245
903	" 15..	No. 9.....	Main return Counter..	" .	30	....	0.10	20.61	0.20	79.09	190	9,500	25.50	57.0	58.0	93	19	27,360	912
908	Dec. 1..	No. 3.....	Slope split, 3 slope....	" .	...	250	0.15	20.47	0.89	78.49	380	24,320	25.50	61.0	62.0	93	216	311,040	1,244
910	" 1..	No. 3.....	Main return	" .	350	....	0.22	20.31	1.35	78.14	890	53,400	25.50	59.0	60.0	93	710	1,022,400	2,921
916	" 14..	No. B North.	"	" .	275	....	0.19	20.39	1.01	78.41	750	48,750	26.00	51.0	51.0	100	492	708,480	2,579
			Michel.																
329	Jan. 26..	No. 3 East...	Main return	Working .	300	....	0.14	20.42	1.27	78.27	1,700	107,100	25.55	51.0	51.0	100	199	286,550	955
345	Feb. 4..	Upper No. 3..	"	" .	300	...	0.11	20.42	1.42	78.05	1,800	113,400	25.80	50.0	50.0	100	255	367,200	1,224
351	Mar. 16..	No. 3 East...	West side.	" .	140	....	0.11	20.48	1.16	78.25	1,040	54,080	26.80	48.0	48.5	97	626	901,440	3,034
355	April 28 .	No. 3 East...	Upper No. 3	" .	...	160	0.10	20.49	1.37	78.04	660	39,600	26.00	....	....	...	542	780,480	2,601
354	" 28 .	No. 3 East, Main slope	Return airway	" .	300	....	0.12	20.38	1.58	78.92	1,000	50,000	26.00	....	....	...	790	1,137,600	3,792
368	July 26..	No. 3.....	6 East split	" .	...	160	0.21	20.37	1.37	78.05	200	19,200	26.02	55.0	55.0	100	263	369,920	2,312
373	Aug. 10..	No. 3.....	Main return	" .	525	....	0.24	20.40	0.65	78.71	620	62,000	26.20	55.0	55.0	100	223	321,120	611
376	" 23..	No. 3 East...	"	" .	350	....	0.14	20.50	1.09	78.27	1,600	100,800	26.00	52.0	52.0	100	1,098	1,569,600	4,480
377	" 30..	No. 8.....	"	" .	650	....	0.26	20.44	0.13	79.17	480	33,600	25.25	51.5	52.0	97	43	61,920	90
387	Oct. 21..	No. 3.....	"	" .	565	....	0.25	20.31	0.70	78.74	640	64,000	25.70	....	....	...	448	645,120	1,141
394	Nov. 1..	No. 3.....	"	Idle.....	575	....	0.12	20.56	0.39	78.93	1,150	115,000	26.30	49.0	50.0	93	448	634,120	1,102

BUMPS IN COAL-MINES.

The disturbances in the different coal-mines of the Province known as "bumps" or "blow-outs" have not been so severe during the year 1921 as they were in 1920; especially in the Crowsnest Pass District, where they have quite a number, none of them doing any great damage, other than displacing a few sets of timbers and dislodging a small quantity of coal from the face or sides and liberating large quantities of methane. There have been no injuries from that cause during the year.

In the Granby No. 1 mine at Cassidy, on Vancouver island, similar disturbances have occurred frequently during the year, dislodging large quantities of coal from the face and sides of headings, giving off methane freely, but the flow of methane does not continue for any great length of time, the rush of methane being over generally in a few hours. There have been no injuries from that cause up to the present, every precaution being taken when an outbursts occurs, both in the Crowsnest Pass mines and the Island mine, to prevent accidents.

MINE FIRES.

There have been no serious outbreaks of fires in the mines during the year. Those which have been walled off were carefully guarded and kept under control.

EXPLOSIONS.

There have been no explosions during the year 1921.

MINE-AIR SAMPLES.

There have been a great many mine-air samples taken at the Crowsnest Pass coal-mines during the year and analysed at the Bureau of Mines at Ottawa. The results of many of these tests are published in this report. This important work done in this respect by the Bureau of Mines at Ottawa is much appreciated by the Department of Mines, especially as it is gratuitously performed.

CARBON-MONOXIDE DETECTORS.

During the year 1920 the carbon-monoxide detector was perfected by Mr. Burrell, of the United States, member of the Bureau of Mines. This will be an assistance in detecting a small percentage of the dangerous gas given off during mine fires or heavy exposions of powder underground.

As soon as the instrument was accepted by the Bureau of Mines of the United States, the Hon. William Sloan, Minister of Mines, ordered one for each rescue-station in the Province.

MINE-RESCUE WORK.

Instruction in mine-rescue work has been actively and effectively maintained at the different rescue-stations throughout the Province during the year.

There were quite a number of men who took the course and qualified for certificates of competency; also a number who had qualified in previous years kept up their training during the year. At the present time there are 499 men who have qualified and secured certificates issued by the Mines Department.

The training course necessary to qualify for a certificate of comptency consists of wearing the oxygen breathing apparatus for two hours a day for twelve days in an irrespirable atmosphere, performing considerable work while there, in addition to spending many hours familiarizing themselves with the many parts of the apparatus, testing of the apparatus for defects, and assembling it in the shortest time.

These volunteers deserve great credit for taking this course of training, as they do so without remuneration.

Cumberland Mine-rescue Squad.

Cumberland First-aid Squad.

LIST OF PERSONS WHO HAVE RECEIVED MINE-RESCUE CERTIFICATES DURING 1921.

Name.	Certificate No.	Where trained.
Weaver, William	485	Fernie.
Talbot, William	486	"
Brown, G. A.	487	"
Tombassio, Jesippi	488	"
Lese, George	489	Merritt.
Cartwright, William David	490	"
Simm, James	491	"
Waddington, George	492	"
Ewart, William	493	"
Adamson, William	494	"
Robertson, George	495	"
Whitehead, John	496	"
Rudrum, Wonderfull A.	497	"
Lester, Frank	498	"
Smith, John Watterson	499	"

The following table shows the number, distribution, and type of mine-rescue apparatus and oxygen resuscitating devices maintained at the coal-mines of the Province during the year 1921:—

Company.	Draeger Apparatus.		Proto or Fleuss Apparatus.		Gibbs.	Paul.	Total Apparatus.	Resuscitating Devices.			Total.
								Pulmotor.		Lungmotor.	
	2-hour.	½-hour.	2-hour.	½-hour.				Type A.	Type B.		
Canadian Western Fuel Co.	4	..	4	2	6	..	16	2	..	2	4
Canadian Collieries—											
Extension	4	..	..	..	..	..	4	..	1	..	1
South Wellington	..	..	..	..	..	5	2	..	1	..	1
Comox	4	..	..	..	..	..	4	..	1	..	1
Vancouver-Nanaimo Coal Co.	2	1	..	..	..	..	3	1	..	..	1
Pacific Coast Coal Mines, Ltd.	2	2	..	..	2	..	6	1	..	..	1
Granby C. M. S. & P. Co.	4	..	..	..	..	..	4	..	..	1	1
Middlesboro Collieries	2	1	..	..	..	..	3	1	..	..	1
Fleming Coal Co.	2	2	..	..	..	..	4	1	..	..	1
Merritt Colliery	..	2	..	..	2	..	4	..	..	..	..
Princeton Colliery	1	1	..	..	..	..	2	1	..	..	1
Crow's Nest Pass Coal Co—											
Coal Creek	5	6	..	..	6	..	16	2	..	..	2
Michel	5	5	..	..	..	..	10	1	..	..	1
Corbin Coal & Coke Co.	2	1	..	..	..	..	3	1	..	..	1
B.C. Government	11	10	..	..	12	11	44	4	4	..	8
Totals	48	31	4	2	28	16	125	15	7	3	25

FIRST-AID WORK.

The enthusiasm in this work is quite the reverse of that displayed in mine-rescue work; a growing interest is manifested in first-aid training in many branches of industry, and we have now, especially around the coal-mining centres, first-aid teams who have demonstrated they are equal to any teams on the continent, which means a great amount of good can be accomplished in and around the mining centres and other industrial plants.

MACHINE-MINED COAL.

During the year mining-machines produced 132,864 tons of coal, or 5.16 per cent. of the whole. This is a decrease compared with the amount of machine-mined coal in 1920, when the percentage of machine-mined coal was 5.51. Of the total machine-mined coal, the Canadian Western Fuel Company produced 42,720 tons, or 32.15 per cent.; the Canadian Collieries (D.), Limited, produced 77,184 tons of machine-mined coal, or 58.10 per cent.; the Crow's Nest Pass Coal Company produced 7,800 tons of machine-mined coal, or 5.90 per cent.

The Princeton Coal and Land Company did not produce any machine-mined coal during the year, while it produced 20,717 tons in 1920. In 1921 the output for the year, amounting to 13,966 tons, was principally taken from pillars where coal-cutting machines would be useless. The Nanoose Collieries produced 3,000 tons, or 2.30 per cent.; Chu Chua Collieries produced 2,160 tons, or 1.55 per cent.

The following table gives the district, number of machines, how driven, tons of coal produced, and type of machine:—

District.	Types of Machine in Use.		Tons of Coal produced.		Total Tons.
	Compressed Air.	Electricity.	Electricity.	Compressed Air.	
Vancouver Island	9	4	77,184	45,720	122,904
Nicola-Princeton	2	..	.....	2,160	2,160
Crowsnest Pass	3	..	.....	7,800	7,800
Totals	14	4	77,184	55,680	132,864

EXAMINATIONS FOR COAL-MINE OFFICIALS.

The "'Coal-mines Regulation Act," as now consolidated and amended, provides that all officers of a coal-mining company having any direct charge of work underground shall hold Government Certificates of Competency, which are to be obtained only after passing an examination before a duly qualified Board appointed for the purpose of holding such examinations, and known as the Board of Examiners.

The certificates granted on the recommendation of such Board and the requirements shall be as follows:—

"(*a.*) If a candidate for a manager, that he is a British subject and has had at least five years' experience in and about the practical working of a coal-mine, and is at least twenty-five years of age; or, if he has taken a degree in scientific and mining training, including a course in coal-mining at a university or mining school approved by the Minister of Mines, that he has had at least four years' experience in and about the practical working of a coal-mine:

"(*b.*) If a candidate for overman, that he has had at least five years' experience in and about the practical working of a coal-mine, and is at least twenty-three years of age:

"(*c.*) If a candidate for shiftboss, fireboss, or shotlighter, that he has had at least three years' experience in and about the practical working of a coal-mine, is the holder of a certificate of competency as a coal-miner, and is at least twenty years of age:

"(*d.*) A candidate for a certificate of competency as manager, overman, shiftboss, fireboss, or shotlighter shall produce a certificate from a duly qualified medical practitioner or St. John or other recognized ambulance society, showing that he has taken a course in ambulance-work fitting him, the said candidate, to give first aid to men injured in coal-mine operations:

"(*e.*) If a candidate for a certificate of competency as a mine surveyor, that he has had two years' practical experience in the surveying of mines, or is the holder of a diploma in scientific and mining training after a course of study of at least two years at an educational institute approved by the Minister of Mines, or has taken a degree in scientific mining subjects at a university so approved.

"'For the purposes of this section the experience demanded by such section shall be of such character as the Board shall consider of practical value in qualifying the candidate for the position to which such class of certificate applies.

"'Experience had in a mine outside of the Province may be accepted should the Board consider such of equal value."

Any certificate is considered as including that of any lower class.

EXAMINATION FOR MINERS.

In addition to the examinations and certificates already specified as coming under the Board of Examiners, the Act further provides that every coal-miner shall be the holder of a certificate of competency as such. By "miner" is meant "a person employed underground in any coal-mine to cut, shear, break, or loosen coal from the solid, whether by hand or machinery."

Examinations of applicants for certificates of competency as coal-miners shall be conducted and certificates of competency granted by a Board of Examiners, which shall consist of the Inspector of Mines for the district in which the examination is held, and two other members to be appointed by the Minister, one of whom shall be appointed to represent the mine-owners and one to represent the coal-miners. The two appointed members of the Board shall have jurisdiction in all districts throughout the Province. The Minister shall appoint one of the appointed members to be Chairman and the other to be Secretary of the Board, and they shall hold office during the pleasure of the Minister.

Where any member of the Board of Examiners is unable to act at any examination by reason of illness, absence, or other cause, the Minister may appoint a person to act in the stead of that member for that occasion, or until the termination of the disability, and any person so appointed may complete any unfinished business of the Board in which he has taken part, even if the member in whose stead he has acted has become able to act.

The proceedings of the Board of Examiners shall be in accordance with the rules in the Third Schedule to the Act.

Examinations of applicants for certificates of competency as coal-miners shall be held on at least one day in every period of sixty days at each colliery designated by the Minister as a place for the holding of examinations under this section.

The work of the Board of Examiners in examining candidates for coal-miners' certificates has been carried on in all mining districts at intervals of less than sixty days, as required by the amendment of the Act.

No certificates have been granted in any case where the candidate failed to satisfy the Board as to his general fitness, experience in a coal-mine, and a working knowledge of the English language.

During 1921 seventy-six examinations were held for candidates for certificates of competency as coal-miners in the various coal-mining districts of the Province and 456 certificates issued. In addition to above, a number of duplicate certificates were issued to coal-miners who had lost their original certificates of competency.

BOARD OF EXAMINERS FOR COAL-MINE OFFICIALS.

FIRST-, SECOND-, AND THIRD-CLASS CERTIFICATES.

Report of James Dickson, Secretary of Board.

I have the honour to submit herewith the annual report of the transactions of the above Board for the year ending December 31st, 1921.

The Board of Examiners, which was formed on July 1st, 1919, at present consists of James McGregor, Chief Inspector of Mines, as Chairman; Harry Ernest Miard, member; and James Dickson, member and Secretary of the Board.

The meetings of the Board are held in the office of the Board, Mines Department, Victoria. The first work was the drafting of the following rules for the conduct of examinations for certificates of competency as mine officials:—

RULES MADE BY THE PROVINCIAL BOARD OF EXAMINERS, JULY 16TH, 1919, AND APPROVED BY THE MINISTER OF MINES, JULY 16TH, 1919, UNDER SECTION 38 OF THE "COAL-MINES REGULATION ACT, 1911," AND AMENDMENT ACT, 1919, FOR THE CONDUCT OF EXAMINATIONS.

1. No application for examination will be considered from any candidate unless it is received by the Department of Mines at least fifteen days previous to the date on which the examination is to be held.

2. The examination sittings shall begin at 9 a.m. and continue until 12.30 p.m.; they shall resume at 2 p.m., and continue until 5.30 each day until the conclusion of the examination.

3. The examinations shall be conducted by the Presiding Examiners appointed by the Board.

4. The Presiding Examiners shall be present in the examination-room at least fifteen minutes prior to the time at which the examination commences.

5. Before each examination the question papers shall be prepared by the Examiners appointed by the Minister, and the necessary copies forwarded to the Presiding Examiners, each set of papers being in a separate sealed package.

6. At the time of the commencement of each session of the examination, when the candidates are in their respective places, the seal of the package shall be broken in the examination-room in the presence of the candidates and the papers distributed punctually in accordance with the time-table on the package.

7. Candidates must present themselves punctually at the hours appointed for the commencement of the examination, and no candidate will be allowed to enter the examination-room later than forty-five minutes after the time set for the commencement of the examination, nor will any candidate be allowed to leave the room during a sitting unless in case of extreme necessity.

8. When the time allotted to each paper has expired, the papers shall be collected by the Presiding Examiners and immediately placed in a package and sealed. At the completion of the examination these papers shall be forwarded to the office of the Board of Examiners for Coal-mine Officials, Victoria, B.C.

9. The examination shall be conducted strictly in accordance with these rules, and the papers of any candidate who does not comply with these rules may be cancelled at the discretion of the Board.

10. The Presiding Examiners shall see that the room is clear of all possible aid to the candidates, and that no persons other than the Honourable the Minister of Mines, the Deputy Minister of Mines, the Provincial Mineralogist, members of the Board, Inspectors of Mines, and Examiners be allowed in the examination-room during sessions.

11. All stationery required for the purpose of the examination shall be supplied by the Board. All surplus stationery shall be collected by the Presiding Examiners at the completion of the examination. Each candidate shall be supplied with pens, ink, pencils, and blotting-paper.

12. The papers shall be collected at the times indicated by the time-table. If from any cause a paper is not given out precisely at schedule time, the candidates must be informed of the fact and the exact time at which their work will be collected, and care must be taken that the exact time is allowed from the moment from which the paper was given out. The time consumed in collecting and giving out papers must not be included in the "full time" allowed for any paper. A candidate who attends late shall not be allowed any extension of time on that account.

13. Before proceeding to his seat in the examination-room a candidate shall lay aside his hat and overcoat, and any book, papers, or appliances the use of which is not expressly allowed to him. The candidate shall be allowed to bring with him a drawing-scale, slide-rule, protractor, a pair of compasses, and logarithmic and trigonometrical tables. Apart from such special articles, a candidate shall be at liberty to take to his place in the examination-room such ordinary appliances as pens, ink, penknife, chalks, and india-rubber; but the Presiding Examiners may, at their discretion, prohibit the use of any such articles.

14. If a candidate arrives late a note of the circumstances shall be made, and it shall always be stated whether any other candidate has already left the room.

15. The Presiding Examiners shall collect at the commencement of the examination the authorization obtained from the Department of Mines for appearing at the examination-room, and no candidate shall be allowed to enter the examination-room unless he presents such authorization.

16. Silence shall be observed in the examination-room while the examination is in progress.

17. The Presiding Examiners shall take every precaution to see that no candidate receives any improper assistance, either from books or papers or from any person. They shall check all disorderly or improper conduct in or about the room, enforce all rules for the conduct of the examination, and report to the Board any irregularity which may occur or any shortcoming in the arrangements for the examination.

18. Should it appear to the Presiding Examiners that a candidate has obtained improper assistance the papers of such candidate shall be cancelled. Any candidate giving assistance to another candidate shall be held to be equally guilty and shall be dealt with accordingly.

19. No candidate shall be allowed to leave the examination-room until the expiration of one hour after the time fixed for the commencement of the paper on which he is engaged.

A candidate obliged to leave the room through illness or other sufficient cause, and who wishes to return and continue work on the paper then in progress, shall leave the room in charge of a Presiding Examiner; a note as to the circumstances shall be made and the part of the paper at which the candidate was at work shall be endorsed by the Presiding Examiner, "The candidate left at this point."

Candidates shall not, without the express permission of the Presiding Examiners, remove from the examination-room any paper or other material supplied to them.

20. A candidate who asks a question as to any ambiguity in the papers shall be told to enter on his work any representation he may wish to make, but no further answer shall be given. The Presiding Examiners shall, themselves, forward a report to the Board stating the candidate's name and the general nature of the question.

A candidate making a complaint of any other nature shall be directed to make his statement in writing, which shall be sent to the Board.

21. Candidates shall be allowed, unless there is any special directions to the contrary, to keep their work in any subject until the expiration of the time allotted to that subject.

Every book, plan, form, or separate sheet of paper used by the candidate shall have inserted on it the name of the subject. The number of each question shall be inserted in the margin which shall be left along the left side of each sheet. In no case shall the name of the candidate be placed on any book, plan, form, or separate sheet of paper upon which the candidate has written or worked the answer to any question; but for the purpose of identification of papers the following system shall be used: At the commencement of the examination each candidate shall choose a number; he shall place this number on a slip furnished for this purpose, together with his name, and place the same in an envelope supplied for the purpose. These envelopes shall remain sealed until the paper has been examined. The candidate shall number all his examination papers with the number he has chosen and placed on the slip with his name.

22. Not more than one answer shall be written on the same sheet of paper. All answers shall be written in ink (except necessary diagrams, which may be in pencil) and on one side only of the paper, and each candidate shall enclose his question paper with his answers in the envelope supplied for the purpose.

23. After the Examiners have received the papers they will correct them and mark on them the marks obtained by each candidate for each paper.

24. After the examination the candidate will be furnished with a list of the marks obtained by him in the different subjects, but not the marks for the individual questions.

25. The apparent or presumed results of the examination shall not be communicated to any person until the same have been officially announced.

26. All correspondence intended for the Board must be addressed to the "Office of the Board of Examiners for Coal-mine Officials, Victoria, B.C."

27. The Presiding Examiners must see that the condidate obtains the right paper of questions.

28. All the work by which the results are obtained shall be clearly shown in immediate connection with the answer, so as to enable the Examiners to satisfy themselves that the candidate has understood the question and to see by what process the results were obtained. Anything which the candidate does not wish the Examiners to notice should be crossed out with pen or pencil, but not erased.

29. In the case of any applicant producing a certificate from a medical practitioner instead of from a recognized ambulance society, as provided for in section 41, subsection (*c*), such certificate shall be in the following form:—

"I hereby certify that I have examined , of , in ambulance work, and find him qualified to render first aid to persons injured in or about a mine.

"(Signed.).....
"*Medical Practitioner.*"

30. The nature of the practical experience shall be experience gained in one or other of the following capacities in a coal-mine, or in a capacity which may be considered by the Board to be equivalent to:—

(*a.*) An underground official of a coal-mine—
(1.) In actual practical work at the working-face and other parts of the underground workings of a coal-mine:
(2.) In direct supervision of such work; or
(3.) In both (1) and (2); or

(*b.*) As an underground workman of a coal-mine who has had direct practical experience in the work of getting minerals, and of stonework, timbering, and repairing:

(*c.*) As mine surveyor. In the case of a person employed as mine surveyor, the practical experience will be considered to be the time the applicant has been employed underground in a coal-mine.

31. Candidates for certificates must possess such knowledge as will enable them to answer promptly questions on the following subjects:—

For First-class Certificates—
(1.) Mining Act and Rules:
(2.) Mine Gases:
(3.) Ventilation:
(4.) General Work:
(5.) Mining Machinery:
(6.) Surveying and Levelling.

For Second-class Certificates—
(1.) Mining Act and Rules:
(2.) Mine Gases:
(3.) Mine Ventilation:
(4.) General Work, including questions on underground machinery and surveying.

For Third-class Certificates—
(1.) Mining Act and Rules and Mine Gases:
(2.) Mine Ventilation and General Work.

For Mine Surveyors' Certificates—
Surveying, levelling, and drawing; determination of magnetic declination; loose and fast needle surveying underground and on the surface; calculation of areas and volume; contour lines and levelling; connecting of surface and underground surveys; triangulation; plotting by protractor and latitudes and departures; mine plans and sections; the use, care, and testing of the instruments.

32. A candidate for First-class Certificate of Competency must obtain 70 per cent. of the maximum marks obtainable for the first three subjects, Mining Act and Rules, Mine Gases and Ventilation; and 60 per cent. of the marks obtainable on the fourth, fifth, and sixth subjects—namely, General Work, Mining Machinery, Surveying and Levelling; and 70 per cent. of the marks obtainable for the whole examination.

33. A candidate for a Second-class Certificate of Competency must obtain 70 per cent. of the marks obtainable for the first three papers, Mining Act and Rules, Mine Gases, and Mine Ventilation; and 60 per cent. for the fourth subject, General Work; and 70 per cent. of the marks obtainable for the whole examination.

34. A candidate for a Third-class Certificate of Competency must obtain not less than 65 per cent. of the marks obtainable on the first subject, Mining Act and Rules and Mine Gases; not less than 60 per cent. of the marks obtainable on the second paper, Ventilation and General Work; and not less than 65 per cent. of the marks obtainable for the whole examination.

35. A candidate for a Mine Surveyor's Certificate of Competency must obtain 70 per cent. of the marks obtainable for the whole examination.

In view of the following regulation made pursuant to the provisions of the "Coal-mines Regulation Act" by the Lieutenant-Governor in Council, examinations for mine surveyors' certificates of competency were also held:—

REGULATION.

1. After the 1st day of October, 1919, all plans required to be kept in accordance with the provisions of the "Coal-mines Regulation Act" shall be made of durable material, and the surveying of mines and the preparation of mine-plans shall be done by a person or persons holding a certificate granted under the provisions of the "Coal-mines Regulation Act" and Amendment Acts.

2. In no case shall a certificate be granted to any applicant until he has satisfied the Board of Examiners that:—

(1.) He has had two years' practical experience in the surveying of mines, or is the holder of a diploma in scientific and mining training after a course of study of at least two years at an educational institute approved by the Minister of Mines, or has taken a degree in scientific mining subjects at a university so approved:

(2.) He is competent:—

(*a.*) To make an accurate survey of the workings of a coal-mine and to connect such survey with a surface survey:

(*b.*) To make accurate survey and levellings:

(*c.*) To plot accurately surveys and levellings:

(3.) He has given satisfactory evidence of his sobriety and general good conduct.

3. Each plan required to be kept in accordance with the provisions of the "Coal-mines Regulation Act" shall have inserted on it the date on which the last survey was made and the signature of the person making such survey.

4. A certificate authorizing any person to act as mine surveyor may be granted to such person without written examination if the Board of Examiners reports that he has the necessary experience, and provided application is made for such certificate before the 1st day of December, 1919.

5. Every person who violates any rule or regulation under the "Coal-mines Regulation Act" or Amendment Acts shall be guilty of an offence against the "Coal-mines Regulation Act," and liable to the penalties and obligations imposed by the said Act.

Two examinations for candidates for certificates of competency were held during 1921; the first being held on May 18th, 19th, and 20th, and the second on November 22nd, 23rd, and 24th.

The total number of candidates at these examinations was as follows: For First-class Certificates, 8 (2 passed, 6 failed); for Second-class Certificates, 8 (4 passed, 4 failed); for Third-class Certificates, 23 (15 passed, 8 failed); for Mine Surveyor Certificates, 6 (2 passed, 4 failed).

The work of the candidates, especially for the higher certificates, leaves much to be desired.

It is the intention of the Board to maintain a high standard, so intending candidates, to gain a certificate of competency of any class, must give themselves thorough preparation.

The following is a list of the candidates who successfully passed the examination in the various classes:—

First-class Candidates.—George Murray and Thomas Wright Scott.

Second-class Candidates.—Robert Clark, Thomas Wright Scott, Fred Menzies, and Hugh G. MacKinnon.

Third-class Candidates.—C. S. Congalton, William C. Stone, Peter Caldwell, David Coupland, Robert Alstead, Richard Dunnigan, George Davey, William R. Nee, William Chapman, George F. Nash, Thomas J. Shea, William Adamson, Thomas Dobie, Robert McArthur, and Cornelius Morgan.

Mine Surveyor Candidates.—Luke Lindoe and Lucas Verkirk.

REGISTERED LIST OF HOLDERS OF CERTIFICATES OF COMPETENCY AS COAL-MINE OFFICIALS.

First-class Certificates of Competency issued under "Coal-mines Regulation Act, 1897."

Name.	Date.
Shepherd, Francis H	March 5th, 1881
Honobin, William	May 1st, 1882
Little, Francis D	May 1st, 1882
Chandler, William	December 21st, 1883
Priest, Elijah	December 21st, 1883
McGregor, James	January 18th, 1888
Randle, Joseph	January 18th, 1888
Matthews, John	January 8th, 1889
Norton, Richard Henry	August 26th, 1889
Sharp, Alexander	October 27th, 1891
Kesley, John	March 4th, 1892
Wall, William H	May 30th, 1896
Morgan, Thomas	May 30th, 1896
Wilson, David	May 30th, 1896
Smith, Frank B	May 30th, 1896
Bradshaw, George B	June 12th, 1899
Simpson, William G	June 12th, 1899
Hargreaves, James	February 5th, 1901
Drinnan, Robert G	February 5th, 1901
Stockett, Thomas, Jr	August 3rd, 1901
Cunliffe, John	August 3rd, 1901
Evans, Daniel	August 3rd, 1901
Browitt, Benjamin	Aug. 3rd, 1901
McEvoy, James	October 17th, 1902
Wilson, A. R	October 17th, 1902
Simister, Charles	October 17th, 1902
Budge, Thomas	October 17th, 1902
Mills, Thomas	October 17th, 1902
Faulds, Alexander	October 17th, 1902
Richards, James A	October 17th, 1902
McLean, Donald	January 21st, 1904
Wilkinson, Geo	January 21st, 1904
Wright, H. B	January 21st, 1904
Coulthard, R. W	January 21st, 1904
Roaf, J. Richardson	January 21st, 1904
John, John	January 21st, 1904
Manley, H. L	January 21st, 1904
Baxter, Andrew	June 10th, 1911
Battey; Richard	May 27th, 1913
Newbury, Arthur	June 21st, 1920

First-class Certificates issued under "Coal-mines Regulation Act Further Amendment Act, 1904."

Name.	Date.	Name.	Date.
Biggs, J. G	July 22, 1908	Davies, Stephen	Nov. 15, 1917
Bonar, Robert	Oct. 28, 1911	Davies, Thos. Owen	May 21, 1914
Brace, Tom	May 13, 1915	de Hart, J. B	May 17, 1917
Bridge, Edward	July 22, 1908	Derbyshire, James	Nov. 9, 1907
Brown, David	May 21, 1914	Devlin, Henry	May 1, 1909
Brown, Robert Joyce	May 13, 1915	Dickson, James	Oct. 31, 1912
Caufield, Bernard	May 1, 1909	Elliott, Daniel	Nov. 9, 1907
Church, James A. H	June 10, 1911	Emmerson, Joseph	Nov. 9, 1907
Cox, Richard	May 13, 1915	Fairfoull, Robert	June 10, 1911
Crowder, James	June 10, 1911	France, Thos	Nov. 22, 1906
Cunningham, John Howard	May 9, 1912	Fraser, Norman	Mar. 4, 1905
Davidson, W. A	May 1, 1909	Freeman, H. N	May 1, 1909
Davies, David	June 10, 1911	Galloway, C. F. J	July 22, 1908

FIRST-CLASS CERTIFICATES ISSUED UNDER "COAL-MINES REGULATION ACT FURTHER AMENDMENT ACT, 1904"—*Continued.*

NAME.	DATE.	NAME.	DATE.
Garman, Morris W	Nov. 15, 1917	O'Brien, George	May 21, 1914
Gascoyne, Rowland B	May 21, 1914	Ovington, John	May 27, 1913
Glover, Francis	Oct. 31, 1912	Peacock, Frank David	Oct. 28, 1911
Graham, Charles	Nov. 14, 1905	Penman, Hugh	May 21, 1914
Graham, Thomas	Nov. 9, 1907	Phelan, Arthur	May 27, 1913
Gray, James	Nov. 27, 1909	Powell, J. W	June 10, 1911
Henderson, Robert	Nov. 27, 1909	Quinn, John Graham	July 8, 1916
Hewlett, Howe	May 27, 1913	Ramsay, Peter Millar	May 16, 1918
Higgins, Alexander	Dec. 19, 1918	Roper, William	May 13, 1915
Holden, James	May 1, 1909	Russell, John	May 21, 1914
Howden, Archibald	May 27, 1913	Scott, Thomas Wright	Dec. 22, 1921
Howells, Nathaniel	Oct. 28, 1911	Shanks, John	May 1, 1909
Hughes, John C	May 17, 1917	Shaw, William	May 9, 1912
Humphries, Clifford	June 10, 1911	Shenton, T. J	Sept 10, 1910
Hunter, Alex. B	July 8, 1916	Shone, Samuel	May 1, 1909
Jackson, Thos. R	Nov. 9, 1907	Smith, A. E	Oct. 28, 1911
James, William	July 22, 1908	Smith, Joseph	July 22, 1908
Jaynes, Frank	May 13, 1915	Smith, Thos. Edwin	Dec. 19, 1918
Jemson, Jas. W	May 27, 1913	Spicer, J. E	Oct. 28, 1911
Kellock, George	June 10, 1911	Spruston, T. A	Nov. 27, 1909
Knox, T. K	July 27, 1909	Stevens, L. C	Nov. 27, 1909
Laird, Robert	Nov. 15, 1917	Stewart, R. T	Sept. 10, 1910
Leighton, Henry	May 9, 1912	Strachan, Robert	Mar. 4, 1905
Macauley, D. A	June 10, 1911	Strang, James	June 10, 1911
McCulloch, James	Sept. 10, 1910	Taylor, James	May 16, 1918
McDonald, John	Oct. 3, 1919	Thomas, J. D	Sept. 10, 1910
McGuckie, Thomas	July 22, 1908	Thorne, B. L	Sept. 10, 1910
McKendrick, Andrew	May 27, 1913	Touhey, James	May 21, 1914
McMillan, J. H	Sept. 10, 1910	Walker, William	May 16, 1918
McVicar, Samuel	May 1, 1909	Wallbank, J	Sept. 10, 1910
Mazey, William John	Oct. 31, 1912	Warburton, Ernest Leonard	July 8, 1916
Miard, Henry Ernest	May 9, 1912	Wark, Samuel David	Oct. 3, 1919
Michell, Dudley	Nov. 15, 1917	Wesnedge, William	Dec. 19, 1918
Millar, John K	Nov. 22, 1906	Whittaker, John	Dec. 19, 1918
Miller, Andrew Anderson	Oct. 31, 1912	Williams, John Samuel	Dec. 19, 1918
Montgomery, John W	May 1, 1909	Williams, Thos. B	May 17, 1917
Moore, Wm. H	May 17, 1917	Williams, Thos. H	Nov. 22, 1906
Mordy, Thomas	Sept. 10, 1910	Wilson, Ridgeway R	Nov. 15, 1917
Mottishaw, Sam. K	Nov. 15, 1917	Wilson, William	May 16, 1918
Murray, George	June 21, 1921	Wylie, John	July 22, 1908

SECOND-CLASS CERTIFICATES OF SERVICE.

NAME.	DATE.	Cer. No.	NAME.	DATE.	Cer. No.
Lee, John S	March 4, 1905	B 9	Hunt, John	March 4, 1905	B 13
Millar, J. K	March 4, 1905	B 10	Walker, David	March 4, 1905	B 14
McCliment, John	March 4, 1905	B 11	Powell, William Baden	March 4, 1905	B 16
Martin, David	March 4, 1905	B 12	Bryden, Alexander	March 4, 1905	B 18

Second-class Certificates of Competency issued under "Coal-mines Regulation Act Further Amendment Act, 1904."

Name.	Date.	Cer. No.	Name.	Date.	Cer. No.
Adamson, Robert	Sept. 10, 1910	B 120	Garbett, Richard	Oct. 31, 1912	B 161
Allan, Alex. McDairmid	May 27, 1913	B 167	Garman, Morris Wilbur	Oct. 31, 1912	B 155
Almond, Walter	Nov. 15, 1917	B 213	Gilham, John	June 21, 1920	B 237
Ball, Benjamin	June 21, 1920	B 235	Gillespie, Hugh	July 29, 1905	B 24
Barclay, Andrew	July 29, 1905	B 25	Gillespie, John	Oct. 23, 1906	B 36
Barlow, Benjamin Robert	Dec. 19, 1918	B 229	Gould, Alfred	May 13, 1915	B 190
Baybutt, Thomas	July 8, 1916	B 206	Gourlay, Robert	Dec. 19, 1918	B 227
Bell, John	May 17, 1917	B 212	Graham, Chas	Mar. 4, 1905	B 1
Beveridge, William	June 21, 1920	B 233	Gray, David	May 1, 1909	B 76
Bevis, Nathaniel	Sept. 10, 1910	B 123	Gray, George	July 8, 1916	B 207
Biggs, John	May 1, 1909	B 94	Greenwell, Archibald	May 16, 1918	B 220
Biggs, John G	Nov. 2, 1907	B 40	Hamilton, Robert N	May 21, 1914	B 175
Blair, James	May 13, 1915	B 197	Hastings, Andrew Peacock	Dec. 19, 1918	B 223
Brace, Tom	Nov. 27, 1909	B 96	Henderson, Robert	July 22, 1908	B 60
Bridge, Edward	Oct. 23, 1906	B 33	Holliday, William	Dec. 19, 1918	B 230
Brown, David	Sept. 10, 1910	B 108	Horrocks, Abner G	June 10, 1911	B 130
Brown, George	Dec. 19, 1918	B 225	Howells, Nathaniel	Nov. 27, 1909	B 97
Brown, James L	Oct. 28, 1911	B 136	Huby, Norman W	May 13, 1915	B 198
Brown, John C	Oct. 23, 1906	B 39	Hudson, George	Sept. 10, 1910	B 121
Brown, John Todd	May 9, 1912	B 150	Hughes, John C	Sept. 10, 1910	B 109
Brown, R. J	Oct. 28, 1911	B 134	Hutton, Isaac	May 21, 1914	B 185
Brown, Robert	May 21, 1914	B 183	Hutton, John	May 9, 1912	B 154
Brown, Robert Sneddon	May 13, 1915	B 196	Hynds, William	Dec. 14, 1920	B 240
Brown, William Gold	Dec. 19, 1918	B 228	Jackson, Thos. R	Mar. 4, 1905	B 5
Brownrigg, John H	May 17, 1917	B 124	James, David	Nov. 2, 1907	B 58
Bushell, J. P	May 1, 1909	B 81	Jarrett, Fred	May 1, 1909	B 84
Carroll, Henry	July 22, 1908	B 62	Jaynes, Frank	Sept. 10, 1910	B 111
Caufield, Bernard	Oct. 23, 1906	B 30	John, Francis	July 8, 1916	B 200
Caufield, John	July 8, 1916	B 199	John, Howell	Sept. 10, 1910	B 122
Cawthorne, L	May 1, 1909	B 93	Johnson, Moses	May 1, 1909	B 75
Challinor, Jno. Thomas	May 27, 1913	B 169	Jones, Samuel	May 16, 1918	B 221
Challoner, Jno. Arthur	May 21, 1914	B 178	Jones, William T	July 22, 1908	B 66
Churchill, James	July 22, 1908	B 65	Jordon, Thos	Nov. 27, 1909	B 104
Clark, Robt	June 21, 1921	B 242	Joyce, Walter	May 27, 1913	B 168
Clarkstone, Wm. W	May 21, 1914	B 180	Kirkwood, John Robertson	Oct. 31, 1912	B 160
Commons, Wm.	Sept. 10, 1910	B 115	Knowles, James E	Oct. 28, 1911	B 137
Coupland, George	May 16, 1918	B 217	Laird Robert	May 17, 1917	B 210
Courtney, A. W	Oct. 28, 1911	B 138	Lander, Frank	May 13, 1915	B 195
Cox, Richard	May 9, 1912	B 143	Lane, Joseph	May 9, 1912	B 142
Crawford, David	May 1, 1909	B 88	Lee, Robert John	Sept. 10, 1910	B 110
Cunliffe, Thomas	May 1, 1909	B 78	Littler, Matthew	Oct. 31, 1912	B 157
Dando, John	May 27, 1913	B 164	Luck, George	June 10, 1911	B 128
Daniels, David	Nov. 2, 1907	B 53	Manifold, Albert	May 9, 1912	B 145
Derbyshire, James	Oct. 23, 1906	B 32	Marsh, John	Nov. 15, 1917	B 216
Davidson, Hugh	May 27, 1913	B 165	Mason, Joseph	May 13, 1915	B 193
Davies, Stephen	Sept 10, 1910	B 113	Massey, H	Nov. 27, 1909	B 99
Dennis, Fred. W	May 21, 1914	B 174	Mather, Thomas	June 10, 1911	B 127
Devlin, Ernest H	May 21, 1914	B 179	Matusky, A	May 1, 1909	B 91
Devlin, Henry	Nov. 2, 1907	B 44	Mayer, Ralph Waldo	May 9, 1912	B 144
Dewar, Alexander	Oct. 31, 1912	B 162	Mazay, W. J	Nov. 27, 1909	B 101
Dickenson, Clifford	May 13, 1915	B 189	Menzies, Fred	Dec. 22, 1921	B 244
Dunsmuir, John	Nov. 14, 1905	B 26	Merryfield, William	July 22, 1908	B 61
Dykes, J. W	May 1, 1909	B 77	Miard, Hy. E	Sept. 10, 1910	B 107
Eccleston, Wm	May 1, 1909	B 87	Michek, John	May 17, 1917	B 188
Fairfoull, James	May 21, 1914	B 186	Michell, Dudley	May 13, 1915	B 187
Fairfoull, R	May 1, 1909	B 83	Middleton, Robert	July 22, 1908	B 72
Finlayson, James	July 29, 1905	B 21	Mitchell, Henry	July 8, 1916	B 201
Ford, Allan	May 27, 1913	B 171	Monks, James	Nov. 2, 1907	B 55
Foster, W. R	Nov. 27, 1909	B 102	Moore, Wm. H	May 21, 1914	B 173
France, Thos	May 14, 1905	B 27	Morgan, John	Nov. 2, 1907	B 43
Francis, David M	May 21, 1914	B 182	Morgan, William	Dec. 19, 1918	B 224
Francis, Enoch	May 1, 1909	B 86	Morris, John	July 22, 1908	B 67
Francis, James	July 22, 1908	B 63	Morton, Robert W	July 22, 1908	B 59
Frater, George	July 8, 1916	B 204	Mottishaw, S. K	Oct. 28, 1911	B 135
Freeman, Henry N	Nov. 2, 1907	B 45	Murray, George	Oct. 3, 1919	B 232

SECOND-CLASS CERTIFICATES OF COMPETENCY ISSUED UNDER "COAL-MINES REGULATION ACT FURTHER AMENDMENT ACT, 1904"—*Continued.*

NAME.	DATE.	Cer. No.	NAME.	DATE.	Cer. No.
Musgrave, J.	May 1, 1909	B 90	Rutherford, Jasper.	May 16, 1918	B 219
Myers, Peter	May 9, 1912	B 149	Scarpino, Francis	Dec. 19, 1918	B 226
MacKinnon, Hugh G.	Dec. 22, 1921	B 243	Scott, Thomas Wright	June 21, 1921	B 241
McLaughlin, Alex	May 13, 1915	B 191	Shanks, David	Oct. 31, 1912	B 159
McDonald, J. A	Oct. 28, 1911	B 133	Shaw, Thomas John	May 27, 1913	B 166
McDonald, John	May 27, 1913	B 172	Smith, John	Oct. 3, 1919	B 231
McFegan, W.	Nov. 31, 1909	B 106	Somerville, Alex.	Mar. 4, 1905	B 4
McGarry, Martin	Oct. 31, 1912	B 156	Spruston, Robert Lecce.	July 8, 1916	B 202
McGuckie, Thomas M.	Oct. 23, 1906	B 35	Spruston, Thos. A.	Nov. 2, 1907	B 46
McKelvie, J.	May 1, 1909	B 92	Stafford, Matthew	June 10, 1911	B 131
McKendrick, And.	Sept. 10, 1910	B 112	Stewart, J. M.	May 1, 1909	B 95
McLean, Michael D.	June 21, 1920	B 234	Stobbart, Jacob.	May 9, 1912	B 153
McMillan, D.	June 10, 1911	B 125	Stockwell, William	Nov. 2, 1907	B 56
McNay, Carmichael.	May 9, 1912	B 151	Strang, Thomas	Oct. 31, 1912	B 158
McPherson, James E.	July 22, 1908	B 73	Sutherland, John	May 16, 1918	B 218
Neen, Joseph.	June 10, 1911	B 129	Taylor, James	May 13, 1915	B 194
Newbury, Arthur	May 21, 1914	B 184	Taylor, Thomas	July 8, 1916	B 203
Newton, Wm.	Sept. 10, 1910	B 116	Thomas, J. B.	Nov. 27, 1909	B 105
O'Brien, Charles	May 9, 1912	B 148	Thomas, Joseph D.	Oct. 23, 1906	B 38
O'Brien, George	May 1, 1909	B 82	Thompson, Joseph	Sept. 10, 1910	B 114
Osborne, Hugh	Dec. 14, 1920	B 239	Touhey, James	May 9, 1912	B 147
Ovington, John.	Nov. 2, 1907	B 52	Touhey, William	July 8, 1916	B 205
Park, William	June 21, 1920	B 238	Tonge, Thomas	July 22, 1908	B 71
Parkinson, T.	May 1, 1909	B 80	Tully, Thomas	Nov. 15, 1917	B 214
Parnham, Charles.	Nov. 2, 1907	B 49	Vanhulle, Peter.	Nov. 2, 1907	B 54
Quinn, James.	May 21, 1914	B 181	Virgo, John.	May 1, 1909	B 89
Quinn, John	May 9, 1912	B 146	Walker, William	May 13, 1915	B 192
Ramsay, Peter Millar	May 17, 1917	B 209	Warburton, Ernest L.	May 27, 1913	B 170
Rankin, Geo.	Nov. 27, 1909	B 103	Watson, Adam G.	Nov. 14, 1905	B 28
Raynes, M. T.	Oct. 28, 1911	B 139	Watson, Arthur W.	May 17, 1917	B 211
Reid, Wm.	Oct. 28, 1911	B 132	Webber, John Frank	Mar. 4, 1905	B 3
Renny, James.	Oct. 28, 1911	B 140	Wesnedge, William	Nov. 27, 1909	B 98
Richards, Thomas.	Nov. 2, 1907	B 57	White, John	Nov. 2, 1907	B 48
Richards, Samuel	May 9, 1912	B 152	Whitehouse, William	Oct. 31, 1912	B 163
Rigby, John	July 29, 1905	B 29	Williams, John Samuel.	Nov. 15, 1917	B 215
Roberts, Ebenezer	Sept. 10, 1910	B 117	Williams, Watkin	Sept. 10, 1910	B 118
Robinson, William.	July 22, 1908	B 69	Wilson, Robinson	May 21, 1914	B 177
Rogers, George	May 1, 1909	B 79	Wilson, Thomas	July 22, 1908	B 74
Roper, William.	May 9, 1912	B 141	Wilson, William	July 22, 1908	B 70
Rowbottom Thomas.	May 16, 1918	B 222	Wood, Thos. James	May 21, 1914	B 176
Russell, John	Nov. 2, 1907	B 47	Worthington, Joseph.	May 1, 1909	B 85

THIRD-CLASS CERTIFICATES ISSUED UNDER "COAL-MINES REGULATION ACT FURTHER AMENDMENT ACT, 1904."

NAME.	DATE.	Cer. No.	NAME.	DATE.	Cer. No.
Adamson, Robert	May 1, 1909	C 323	Ball, Alfred	May 17, 1917	C 635
Adamson, Wm.	Dec. 22, 1921	C 721	Bann, Thomas	Oct. 31, 1912	C 494
Ainsworth, Edward	May 16, 1918	C 674	Baggaley, J.	July 22, 1908	C 300
Allan, Alexander	Oct. 28, 1911	C 430	Bain, James	May 27, 1913	C 546
Almond, Alex.	Oct. 1, 1907	C 252	Ball, Benjamin	May 21, 1914	C 583
Almond, Walter	July 22, 1908	C 286	Barker, Robert	June 10, 1911	C 415
Alstead, Robt	June 21, 1921	C 719	Barlow, B. R.	May 1, 1909	C 337
Anderson, John.	Oct. 28, 1911	C 437	Bateman, Joseph William.	Oct. 28, 1913	C 551
Anderson, Peter Blane	Nov. 15, 1917	C 660	Bauld, Wm	June 10, 1911	C 422
Anderson, Robt.	Oct. 14, 1914	C 599	Baxter, Robert.	Oct 28, 1911	C 450
Angell, William	May 21, 1914	C 591	Baybutt, Thomas.	May 27, 1913	C 548
Arbuckle, John.	May 13, 1915	C 622	Beeton, D. H.	May 1, 1909	C 338
Archibald, Geo.	May 21, 1914	C 569	Bell, Fred	May 27, 1913	C 514
Archibald, Thomas.	Oct. 28, 1911	C 454	Bell, John	May 9, 1912	C 477

THIRD-CLASS CERTIFICATES ISSUED UNDER "COAL-MINES REGULATION ACT FURTHER AMENDMENT ACT, 1904"—*Continued.*

NAME.	DATE.	Cer. No.	NAME.	DATE.	Cer. No.
Bennett, Andrew M.	Nov. 15, 1917	C 661	Coulthard, James	June 10, 1911	C 407
Bennett, John	Oct. 14, 1914	C 597	Crawford, David	Mar. 4, 1905	C 208
Bennie, John	June 10, 1911	C 411	Cunningham, G. F.	Nov. 11, 1905	C 229
Beveridge, Wm.	June 10, 1911	C 396	Cunliffe, Thos	Oct. 1, 1907	C 265
Biggs, John	Mar. 4, 1905	C 210	Dabb, Owen	May 21, 1914	C 578
Biggs, Thomas	Oct. 28, 1911	C 449	Dando, John	May 9, 1912	C 465
Birchell, Richard	Oct. 1, 1907	C 266	Davey, George	June 21, 1921	C 718
Blair, James	Oct. 31, 1912	C 502	Davidson, Hugh	May 9, 1919	C 464
Blewett, Ernest	July 22, 1908	C 298	Davies, Alfred	Oct. 3, 1912	C 691
Blinkhorn, Thomas	Dec. 19, 1918	C 681	Davies, Evan Thomas	May 9, 1912	C 463
Bradley, William	July 22, 1908	C 291	Davis, John David	May 16, 1918	C 669
Bridge, Edward	July 29, 1905	C 223	Davis, William	May 1, 1909	C 339
Briscoe, F.	July 22, 1908	C 309	Dean, Andrew	Dec. 19, 1918	C 688
Broderick, Matthew	Jan. 21, 1913	C 525	Dean, Joseph	May 13, 1915	C 611
Brown, Arthur A.	Oct. 14, 1914	C 596	Derbyshire, A	June 10, 1911	C 401
Brown, David	Nov. 1, 1909	C 348	Dewar, Alex.	Sept. 10, 1910	C 369
Brown, George	July 8, 1916	C 626	Devlin, Edward	Oct. 23, 1906	C 241
Brown, George A.	Dec. 14, 1920	C 706	Devlin, Ernest Henry	May 27, 1913	C 538
Brown, James	Sept. 10, 1910	C 364	Devlin, John	Oct. 3, 1919	C 693
Brown, James	June 10, 1911	C 412	Devoy, William	May 17, 1917	C 638
Brown, James	July 8, 1916	C 625	Dickenson, Clifford	May 27, 1917	C 532
Brown, Jas. Millie	May 13, 1915	C 615	Dingsdale, Geo	Oct. 28, 1911	C 459
Brown, John	Sept. 10, 1910	C 392	Dobie, Thomas	Dec. 22, 1921	C 726
Brown, Robert	Oct. 28, 1911	C 451	Doherty, J. J.	May 1, 1909	C 340
Brown, Robert D.	June 10, 1911	C 423	Doney, John	Mar. 4, 1905	C 211
Brown, Robert S.	June 10, 1911	C 408	Donnachie, John	June 10, 1911	C 425
Brown, Wm. A.	May 21, 1914	C 576	Doodson, Robert	Oct. 28, 1911	C 455
Brown, William Gold	July 8, 1916	C 629	Dorrance, Orlin William	Jan. 21, 1913	C 517
Bruce, Preston	Dec. 14, 1920	C 712	Douglas, D. B.	Oct. 23, 1906	C 235
Bullen, Thomas	Sept. 10, 1910	C 379	Dow, And. Y.	May 21, 1914	C 587
Bushell, Jas. P.	Oct. 1, 1907	C 264	Drybrough, Robert	June 21, 1920	C 701
Bysouth, Thomas	May 16, 1918	C 673	Dunn, Wm.	Oct. 14, 1914	C 606
Cairns, Andrew	June 10, 1911	C 420	Dunnigan, Richard	June 21, 1921	C 716
Cairns, Robert	May 27, 1913	C 539	Dykes, Isaac	June 10, 1911	C 409
Caldwell, Daniel	May 17, 1917	C 639	Dykes, Joseph W	Oct. 1, 1907	C 248
Caldwell, Peter	June 21, 1921	C 715	Eccleston, Thomas	May 17, 1917	C 482
Calverly, Joseph	Sept. 10, 1910	C 375	Edwards, John	May 27, 1913	C 542
Camamile, Hollis	Oct. 28, 1911	C 443	Elliott, John	May 27, 1913	C 541
Campbell, Samuel	Nov. 15, 1917	C 662	Elmes, George	Oct. 31, 1912	C 511
Campbell, Andrew	Nov. 27, 1917	C 651	Evans, D.	July 22, 1908	C 284
Carr, Peter	Oct. 31, 1912	C 497	Ewing, Robert	May 13, 1915	C 608
Carson, George	Mar. 17, 1917	C 663	Fairfoull, James	Oct. 28, 1911	C 453
Catchpole, Charles	July 29, 1905	C 227	Farrow, John William	Dec. 19, 1918	C 683
Caufield, Edward	May 16, 1918	C 670	Ferryman, Henry	June 21, 1920	C 697
Caufield, John	May 1, 1909	C 321	Fitzpatrick, T. J	Oct. 2, 1911	C 452
Challoner, Arthur	Oct. 28, 1911	C 433	Flockart, David	Jan. 21, 1913	C 531
Chambers, Ralph H.	Dec. 14, 1920	C 709	Ford, Allen	Oct. 28, 1911	C 445
Chapman, Wm.	Dec. 22, 1921	C 720	Fowler, Robert	Oct. 31, 1912	C 495
Charnock, John	Nov. 15, 1917	C 653	Francis, David Morgan	Oct. 28, 1913	C 558
Cheetham, Ben	July 22, 1908	C 311	Francis, James	Oct. 1, 1907	C 250
Chester, John	Oct. 28, 1911	C 440	Frater, George	May 13, 1915	C 616
Clark, Lewis	June 10, 1911	C 405	Freeman, H. N.	Nov. 14, 1905	C 230
Clark, Walter Pattison	May 9, 1912	C 480	Frew, Andrew	Nov. 27, 1909	C 360
Clarkson, Robert	June 21, 1920	C 696	Frodsham, Vincent	July 22, 1908	C 282
Clarkstone, Wm. W.	Oct. 28, 1911	C 431	Furbow, John	Jan. 21, 1913	C 528
Cleaves, Walter	May 9, 1912	C 475	Garbett, Richard	Sept. 10, 1910	C 377
Clifford, William	July 22, 1908	C 313	Gascoyne, Rowland B.	Jan. 21, 1913	C 513
Colgrove, Charles Henry	Dec. 19, 1918	C 679	Geater, Jas. Gordon	May 21, 1914	C 573
Commons, William	July 22, 1908	C 304	Gemmell, James	Oct. 31, 1912	C 505
Coupland, David	June 21, 1921	C 713	Gillham, John	May 13, 1915	C 623
Cooke, Joseph	Mar. 4, 1905	C 209	Gillies, William	May 16, 1918	C 668
Coomb, Alexander	May 27, 1913	C 533	Glenn, James	Oct. 28, 1911	C 435
Cooper, John Andrew	Dec. 19, 1918	C 689	Gordon, Davis John	May 9, 1912	C 474
Cope, Frank	Oct. 28, 1913	C 549	Gourley, Robert	May 9, 1912	C 470

THIRD-CLASS CERTIFICATES ISSUED UNDER "COAL-MINES REGULATION ACT FURTHER AMENDMENT ACT, 1904"—*Continued.*

NAME.	DATE.	Cer. No.	NAME.	DATE.	Cer. No.
Gray, George	May 9, 1912	C 467	Lane, Joseph	Oct. 1, 1907	C 254
Green, William	Nov. 15, 1917	C 659	Lavin, Joseph	June 21, 1920	C 700
Greenhorn, John	May 21, 1914	C 575	Leeman, T.	May 1, 1909	C 345
Griffiths, Edward	Oct. 31, 1914	C 508	Lewis, Benj. J.	Sept. 10, 1910	C 386
Gunniss, Matthew	May 9, 1912	C 460	Leynard, Paul	May 17, 1917	C 637
Hallinan, William	May 1, 1909	C 343	Liddle, John	July 29, 1905	C 228
Halsall, J.	July 22, 1908	C 307	Lindsay, William	May 17, 1917	C 642
Hamilton, John	Oct. 28, 1911	C 444	Littler, John	June 10, 1911	C 410
Hamilton, Robert Nesbitt	Oct. 28, 1913	C 550	Littler, Matthew	June 10, 1911	C 417
Hampton, Samuel	Nov. 15, 1917	C 650	Littler, Robert	June 10, 1911	C 418
Hancock, Arthur	Nov. 15, 1917	C 656	Livingstone, Alex.	Oct. 28, 1911	C 436
Hardy, Edward	June 21, 1920	C 694	Loxton, George	June 10, 1911	C 428
Hartley, Thomas	Oct. 31, 1912	C 510	Loxton, John	June 10, 1911	C 416
Harwood, Fred	Sept. 10, 1910	C 384	Luck, George	May 1, 1909	C 318
Harvey, Thomas	May 9, 1912	C 466	Lynch, Stewart	Oct. 28, 1911	C 432
Harvie, George	Sept. 10, 1910	C 378	Mackie, John.	June 10, 1911	C 421
Heaps, Robert	Sept. 10, 1910	C 373	Makin, J. Wm.	Sept. 10, 1910	C 385
Hemer, Herbert	Oct. 14, 1914	C 595	Malone, John.	May 21, 1914	C 585
Henney, Jonathan	June 10, 1911	C 424	Malone, Patrick	Oct. 1, 1907	C 247
Hendry, James	May 9, 1912	C 471	Maltman, James	Oct. 31, 1912	C 501
Herd, William.	Dec. 19, 1918	C 682	Mansfield, A.	May 1, 1909	C 336
Heyes, Edward	May 1, 1909	C 320	Marrs, John	May 17, 1917	C 640
Hill, Isaac	Nov. 15, 1917	C 664	Marsh, Daniel Parks	May 27, 1913	C 543
Hilley, Fred.	July 22, 1908	C 290	Marsh, John	Oct. 1, 1907	C 270
Hilton, Mathias	Dec. 19, 1918	C 677	Martin, James	June 10, 1911	C 398
Hilton, R. G.	Sept. 10, 1910	C 376	Mason, Joseph.	July 22, 1908	C 297
Hodson, R. H.	Mar. 4, 1905	C 216	Massey, Henry	May 1, 1909	C 317
Holdsworth, William.	May 16, 1918	C 671	Mather, Thomas	July 22, 1908	C 293
Holliday, William	July 8, 1916	C 634	Matusky, Andrew.	Oct. 1, 1907	C 259
Horbury, Joseph W.	June 10, 1911	C 406	Mawson, J. T	Nov. 27, 1909	C 359
Horrocks, A. G.	May 1, 1909	C 324	Maxwell, Geo.	May 21, 1914	C 571
Horwood, S.	July 22, 1908	C 312	McAlpine, John	Mar. 4, 1905	C 217
Houston, Robert	July 8, 1916	C 631	McArthur, John Malcolm.	May 17, 1917	C 648
Howells, Nathaniel	May 1, 1909	C 316	McArthur, Robert.	Dec. 22, 1921	C 723
Huby, Norman.	June 10, 1911	C 394	McBroom, Al.	July 2, 1908	C 287
Hutchison, Ben.	Nov. 14, 1905	C 232	McCourt, John.	Oct. 14, 1914	C 605
Hutchison, Fred.	Nov, 27, 1909	C 358	McCulloch, James	May 1, 1909	C 315
Hynd, John.	Dec. 14, 1920	C 707	McDonald, John.	Oct. 28, 1911	C 448
Hynds, William	July 8, 1916	C 632	McFagen, Alexander.	May 9, 1912	C 490
Ireson, John.	Oct. 31, 1912	C 507	McFegan, Robert.	June 21, 1920	C 698
Irvine, David.	June 10, 1911	C 413	McFegan, W.	May 1, 1909	C 319
Jack, John.	May 21, 1914	C 582	McGarry, Martin.	May 1, 1909	C 326
James, Thos.	May 21, 1914	C 588	McGrath, James.	July 8, 1916	C 630
Jardine, George Edward.	Jan. 21, 1913	C 521	McGuckie, Jno. M.	May 21, 1914	C 562
Jarrett, Fred. J.	Oct. 1, 1907	C 256	McGuckie, Thomas	July 29, 1905	C 226
Jaynes, Frank.	July 22, 1908	C 277	McGuire, Thomas	Oct. 28, 1913	C 553
Jemson, J. W.	Mar. 4, 1905	C 205	McIntyre, Neil.	May 21, 1914	C 574
Jenkins, John.	Sept. 10, 1910	C 390	McKelvie, J.	July 22, 1908	C 285
John, Howel	July 22, 1908	C 305	McKenzie, Peter	June 10, 1911	C 427
Johnson, Moses.	Oct. 1, 1907	C 258	McKibben, Matthew.	May 21, 1914	C 580
Johnston, Robert.	May 9, 1912	C 479	McKinley, John	Oct. 28, 1914	C 442
Jones, Alf. Geo.	May 21, 1914	C 584	McLaughlin, James.	May 9, 1912	C 485
Jones, Samuel.	May 27, 1913	C 518	McLachlan, Alex.	June 10, 1912	C 419
Jones, William C.	Jan. 21, 1913	C 556	McLean, M. D.	Sept. 10, 1910	C 389
Jones, William Ernest.	Oct. 28, 1913	C 221	McLellan, William.	Mar. 4, 1905	C 219
Jones, W. T.	Mar. 4, 1905	C 544	McLeod, James.	July 22, 1908	C 296
Joyce, Walter.	Nov. 27, 1909	C 361	McLeod, John.	May 13, 1915	C 609
Judge, Peter	Sept. 10, 1910	C 391	McMeakin, James.	May 13, 1915	C 612
Keenan, Wm. James.	June 10, 1911	C 426	McMillan, D.	Sept. 10, 1910	C 363
Kelly, Ernest	May 17, 1917	C 646	McMillan, Edward.	Oct. 31, 1912	C 493
Kemp, Wm.	Oct. 14, 1914	C 594	McMillan, Neil.	Nov. 15, 1917	C 654
Kingham, Alfred	Oct. 28, 1913	C 559	McNay, Carmichael.	July 22, 1908	C 306
Kirkeberg, H. S.	Nov. 27, 1909	C 350	McNeill, Adam L.	July 22, 1908	C 281
Klejko, Steve	Dec. 14, 1920	C 703	McNeill, Robert.	Sept. 10, 1910	C 387

Third-class Certificates issued under "Coal-mines Regulation Act Further Amendment Act, 1904"—*Continued.*

Name.	Date.	Cer. No.	Name.	Date.	Cer. No.
Meek, Matthew	May 9, 1912	C 484	Reid, Robert	Sept. 10, 1910	C 383
Meikle, Harry Alexander	July 8, 1916	C 627	Reid, Thos.	May 21, 1914	C 592
Menzies, Frederick	Dec. 14, 1920	C 704	Reid, Wm.	June 10, 1911	C 403
Merrifield, George	Oct. 23, 1906	C 239	Reilly, Thomas	July 22, 1908	C 303
Merrifield, William	Oct. 23, 1906	C 236	Renney, Jas.	Nov. 27, 1909	C 354
Michek, John	May 21, 1914	C 563	Richards, James	Nov. 1, 1907	C 249
Miles, John	June 10, 1911	C 414	Richards, Samuel	Oct. 23, 1906	C 244
Mitchell, Charles	May 1, 1909	C 322	Richardson, J. H.	Oct. 28, 1911	C 458
Mitchell, Henry	Sept. 10, 1910	C 366	Rigby, John	July 29, 1905	C 225
Monks, James	Nov. 14, 1905	C 234	Roberts, Ebenezer	May 1, 1909	C 327
Moore, George	Oct. 23, 1906	C 242	Robinson, Michael	May 1, 1909	C 332
Moore, John	May 1, 1909	C 335	Robson, Thomas	May 21, 1914	C 566
Moreland, Thomas	July 22, 1908	C 299	Rogers, Ellis	May 13, 1915	C 624
Morgan, John	July 29, 1905	C 224	Roper, William	July 22, 1908	C 274
Morgan, William	May 17, 1917	C 636	Ross, William	June 21, 1920	C 702
Morgan Cornelius	Dec. 22, 1921	C 725	Rowan, Alexander	Oct. 31, 1912	C 500
Morris, David	May 9, 1912	C 472	Rowan, John	Oct. 14, 1914	C 602
Mottishaw, Samuel K	Oct. 23, 1906	C 237	Rowbottom, Thomas	Oct. 31, 1914	C 492
Murdock, Jno. Y.	May 21, 1914	C 564	Royle, Edward	Oct. 31, 1912	C 506
Myers, Peter	Oct. 28, 1911	C 446	Russell, Robert	Nov. 27, 1909	C 351
Nanson, T. H.	July 22, 1908	C 280	Rutherford, Jasper	May 17, 1917	C 644
Nash, George William	May 17, 1917	C 565	Rutledge, Edwin	July 22, 1908	C 302
Nash, George F.	Dec. 22, 1921	C 727	Scott, Henry	July 22, 1908	C 294
Nee, Wm. R.	Dec. 22, 1921	C 724	Saunders, Eustace L.	Jan. 21, 1913	C 520
Neen, Joseph	Nov. 27, 1909	C 352	Scarpino, Francis	May 17, 1917	C 649
Nelson, Horatio	Oct. 1, 1907	C 263	Seddon, James	Oct. 3, 1919	C 692
Neilson, William	May 9, 1912	C 481	Shanks, David	Sept. 10, 1910	C 372
Newman, John	Oct. 14, 1914	C 603	Sharp, James	May 1, 1909	C 325
Nicholson, James	May 9, 1912	C 469	Sharples, J. T.	Sept. 10, 1910	C 380
Nimmo, James	May 9, 1912	C 461	Shea, Thomas J.	Dec. 22, 1921	C 722
Norris, Joshua	Oct. 28, 1913	C 557	Shearer, L	May 1, 1909	C 330
Oakes, Robert	Oct. 31, 1912	C 498	Shields, Thomas	May 16, 1918	C 667
O'Brien, Charles	Nov. 27, 1909	C 349	Shipley, John W.	Oct. 28, 1911	C 456
Odgers, Alfred	Jan. 21, 1913	C 529	Shooter, Joseph	Oct. 1, 1907	C 261
Odgers, Eli	Jan. 21, 1913	C 523	Shortman, J.	May 1, 1909	C 331
Orr, Alexander	Oct. 28, 1911	C 434	Simister, J. H.	Nov. 27, 1909	C 353
Osborne, Hugh	Oct. 28, 1913	C 555	Simister, W	May 1, 1909	C 334
Oswald, Geo. L.	Sept. 10, 1910	C 370	Sim, James	Dec. 14, 1920	C 711
Owen, Thomas	May 1, 1909	C 347	Simms, Hubert Allan	Jan. 21, 1913	C 526
Park, William	Dec. 19, 1918	C 684	Sinclair, William	Jan. 21, 1913	C 527
Parks, Alexander	Jan. 21, 1913	C 519	Skelton, Thos	May 1, 1909	C 344
Parker, L.	May 1, 1909	C 341	Smith, A. E.	Sept. 10, 1910	C 367
Parkinson, James William	Nov. 15, 1917	C 655	Smith, John Watterson	May 16, 1918	C 665
Parkinson, T.	July 22, 1908	C 289	Smith, Joseph	Mar. 4, 1905	C 207
Parrott, Jas. E.	May 21, 1914	C 590	Smith, Richard Beveridge	Oct. 28, 1913	C 561
Parson, Herbert	May 13, 1915	C 621	Smith, Thos. J.	Oct. 1, 1907	C 271
Pearson, Jonathan	May 9, 1912	C 473	Smith, Thomas	May 9, 1912	C 486
Penman, Hugh	Oct. 28, 1913	C 552	Smith, Thomas	Dec. 14, 1920	C 705
Perry, George Harewood	May 17, 1917	C 643	Snow, Aubrey	June 15, 1918	C 675
Phillips, Richard Stephen	May 17, 1917	C 620	Sopwith, Reginald Scott	Jan. 21, 1913	C 512
Pickup, A.	July 22, 1908	C 310	* Sparks, Edward	Oct. 1, 1907	C 255
Picton, W.	May 1, 1909	C 333	Spencer, G.	May 1, 1909	C 329
Plank, Samuel	Nov. 14, 1905	C 233	Spruston, R. L.	Nov. 27, 1909	C 355
Poole, Samuel	May 27, 1913	C 536	Spruston, Thomas A.	Mar. 4, 1905	C 206
Price, Walter	Sept. 10, 1910	C 371	Stafford, M.	Sept. 10, 1910	C 382
Puckey, John Thomas	Dec. 19, 1918	C 687	Starr, Wallace	May 9, 1912	C 488
Quinn, James	Oct. 28, 1911	C 441	Staton, Edward	May 21, 1914	C 581
Quinn, John	Oct. 28, 1911	C 429	Steele, Walter	Oct. 28, 1911	C 439
Radford, Albert	May 21, 1914	C 579	Stewart, George	May 27, 1913	C 534
Rallison, R.	July 22, 1908	C 279	Stewart, James M.	Oct. 23, 1906	C 240
Rankin, George	July 22, 1908	C 275	Stockwell, William	Oct. 23, 1906	C 238
Rankin, Wm. Shaw	May 9, 1912	C 489	Stone, Wm. C.	June 21, 1921	C 714
Ratcliffe, Thomas	Oct. 1, 1907	C 253	Strachan, John	Oct. 14, 1914	C 604
Raynor, Fred	Oct. 1, 1907	C 257	Strang, James	May 13, 1915	C 614

* C 314 issued in lieu of C 255 destroyed by Fernie fire.

THIRD-CLASS CERTIFICATES ISSUED UNDER "COAL-MINES REGULATION ACT FURTHER AMENDMENT ACT, 1904"—*Continued.*

NAME.	DATE.	Cer. No.	NAME.	DATE.	Cer. No.
Strang, Thomas	June 10, 1911	C 400	Warburton, Ernest Leonard	June 10, 1911	C 399
Strang, Wm.	June 10, 1911	C 395	Ward, Ernest Hedley	May 17, 1917	C 641
Sutherland, John	May 27, 1913	C 545	Wardrop, James	Oct. 31, 1912	C 504
Taylor, Charles M.	Mar. 4, 1905	C 213	Watson, Adam G	Mar. 4, 1905	C 212
Taylor, Hugh	Jan. 21, 1913	C 530	Watson, Arthur W.	May 27, 1913	C 535
Taylor, James	May 21, 1914	C 567	Watson, George	July 22, 1908	C 288
Taylor, Jonathan	Dec. 19, 1918	C 680	Watson, Joseph	Jan. 21, 1913	C 515
Taylor, J. T.	Oct. 28, 1911	C 447	Watson, William	Oct. 22, 1906	C 246
Taylor, Leroy	Sept. 10, 1910	C 381	Watson, William	May 17, 1917	C 645
Taylor, Robert	June 21, 1920	C 695	Webb, Herbert	Oct. 28, 1911	C 457
Taylor, Thomas	May 21, 1914	C 577	Webster, James Stewart	Dec. 19, 1918	C 685
Thacker, Geo.	May 27, 1913	C 537	Weeks, John	Mar. 4, 1905	C 214
Thomas, Thomas	Sept. 10, 1910	C 365	West, James Gloag	May 16, 1918	C 676
Thomas, John B.	Nov. 14, 1905	C 231	Whalley, William	Dec. 19, 1918	C 686
Thomas, Joseph.	Mar. 4, 1905	C 220	White James	Oct. 31, 1912	C 499
Thomas, Warriett	Oct. 1, 1907	C 273	White, John	Oct. 22, 1906	C 245
Thomason, Charles	Nov. 15, 1917	C 657	Whitehouse, Wm.	June 10, 1911	C 402
Thompson, Thomas	Oct. 1, 1917	C 267	Wilkinson, Edward	Oct. 28, 1911	C 438
Thompson, John.	Oct. 31, 1912	C 509	Williams, John Sam.	June 10, 1911	C 404
Thompson, Joseph	Oct. 1, 1907	C 269	Williams, Watkin	June 22, 1908	C 301
Thomson, Duncan	Mar. 4, 1905	C 218	Wilson, Robinson.	June 10, 1911	C 397
Tolley, John	Dec. 19, 1918	C 678	Wilson, Thomas M.	Oct. 1, 1907	C 272
Touhey, William.	May 27, 1913	C 547	Wilson, William	Oct. 1, 1907	C 262
Travis, Joseph.	June 21, 1920	C 699	Wilson, William.	May 17, 1917	C 674
Tully, Thomas	May 9, 1912	C 468	Winstanley, H.	July 22, 1908	C 283
Tune, Elijah	May 9, 1912	C 476	Wintle, Thomas A	July 29, 1905	C 222
Turnbull, Matthew.	Oct. 14, 1914	C 598	Witherington, George	Oct. 28, 1913	C 554
Vardy, Robt.	May 21, 1914	C 570	Wood, Thos. James	Oct. 31, 1912	C 491
Vaughan, John Henry.	Oct. 28, 1913	C 560	Worthington, J.	July 22, 1908	C 295
Walker, George	July 8, 1916	C 633	Wright, John.	May 21, 1914	C 593
Walker, Jas. Alexander	Oct. 31, 1912	C 496	Wright, Robert.	May 21, 1914	C 589
Walker, Wm.	May 21, 1914	C 586	Wright, William	Jan. 21, 1913	C 522
Wallace, Fred	Oct. 1, 1907	C 260	Young, Alexander	May 16, 1918	C 666
Walls, John	Dec. 14, 1920	C 710			

COAL-MINE OFFICIALS.

Third-class Certificates issued under "Coal-mines Regulation Act Further Amendment Act, 1904," sec. 38, subsec. (2), in exchange for Certificates issued under the "Coal-mines Regulation Act Amendment Act, 1901."

Name.	Date.	Certificate No.	Name.	Date.	Certificate No.
Adam, Robert	Oct. 12, 1904	C 42	Courtney, A. W.	Nov. 2, 1904	C 45
Addison, Thos.	Dec. 10, 1904	C 52	Crawford, Frank	April 6, 1904	C 7
Aitken, James	Oct. 24, 1904	C 44	Daniels, David	April 27, 1904	C 12
Allsop, Harry	Oct. 11, 1904	C 34	Davidson, David	April 3, 1905	C 106
Ashman, Jabez.	Feb. 5, 1907	C 131	Davidson, John	March 29, 1905	C 87
Auchinvole, Alex	March 29, 1905	C 89	Devlin, Henry	Oct. 12, 1904	C 41
Barclay, Andrew	April 27, 1904	C 19	Dobbie, John.	Nov. 27, 1905	C 126
Barclay, James	April 27, 1904	C 20	Dudley, James	March 22, 1905	C 114
Barclay, John	April 17, 1905	C 111	Duncan, Thomas	Aug. 29, 1906	C 128
Bickle, Thos.	Oct. 11, 1904	C 37	Dunlap, Henry	Nov. 21, 1904	C 51
Bowie, James	May 13, 1905	C 116	Dunn, Geo	Dec. 19, 1904	C 56
Briscoe, Edward	Oct. 10, 1906	C 129	Dunsmuir, John	March 29, 1905	C 90
Campbell, Dan	March 29, 1905	C 93	Eccleston, Wm	March 15, 1905	C 80
Carr, Jos. E.	Oct. 11, 1904	C 36	Fagan, David	April 6, 1905	C 109
Carroll, Harry	March 29, 1905	C 98	Farquharson, John	April 27, 1904	C 17
Clarkson, Alexander	April 27, 1904	C 18	Findlayson, James	June 6, 1904	C 25
Collishaw, John	Feb. 7, 1905	C 68	Fulton, Hugh T.	April 3, 1905	C 105
Comb, John	March 23, 1904	C 2	Gibson, Edward	May 30, 1905	C 118
Cosier, Wm	March 29, 1905	C 86	Gilchrist, Wm	March 29, 1905	C 85

COAL-MINE OFFICIALS—*Continued.*

Name.	Date.	Certificate No.	Name.	Date.	Certificate No.
Gillespie, Hugh	April 6, 1904	C 8	Perrie, James	March 15, 1905	C 81
Gillespie, John	April 6, 1904	C 5	Power, John	Sept. 8, 1920	C 142
Gould, Alfred	April 17, 1906	C 112	Price, Jas	Nov. 8, 1904	C 50
Green, Francis	Oct. 11, 1904	C 38	Rafter, Wm	March 29, 1905	C 95
Handlen, Jas	June 16, 1904	C 122	Reid, James	March 23, 1904	C 1
Harmison, Wm	Feb. 3, 1905	C 65	Richards, Thos	April 27, 1904	C 14
Hescott, John	Jan. 16, 1905	C 62	Ross, John	April 3, 1905	C 101
Hoggan, Wm	June 6, 1911	C 134	Roughead, George	Jan. 30, 1907	C 130
John, David	Nov. 8, 1904	C 49	Ryan, John	Dec. 28, 1904	C 59
John, Evan	July 25, 1916	C 140*	Sanders, John W	April 3, 1905	C 107
Johnson, Geo	May 9, 1904	C 124	Shenton, Thos. J	July 25, 1904	C 30
Johnson, Wm. R	March 1, 1905	C 75	Shepherd, Henry	June 13, 1904	C 26
Jones, Evan	April 30, 1913	C 136	Smith, Geo	March 29, 1905	C 84
Kerr, Wm	March 29, 1905	C 91	Somerville, Alex	March 24, 1904	C 3
Lander, Frank	Jan. 9, 1905	C 61	Stauss, Chas. F	Feb. 9, 1905	C 69
Lanfear, Herbert	Jan. 27, 1905	C 63	Steele, Jas	March 29, 1905	C 92
Lewis, Thos	Oct. 11, 1904	C 35	Steele, John	June 4, 1913	C 4
Malpass, James	Nov. 7, 1904	C 113	Stewart, Duncan H	March 28, 1904	C 137
Marsden, John	May 3, 1904	C 21	Stewart, John	April 3, 1904	C 104
Miard, Harry E	March 3, 1905	C 76	Stewart, Daniel W	May 16, 1904	C 23
Middleton, Robt	Feb. 11, 1905	C 71	Stoddart, Jacob	Feb. 21, 1905	C 73
Miller, Thos. K	Feb. 21, 1905	C 74	Strachan, Robt	April 27, 1904	C 15
McKenzie, John R	Oct. 12, 1904	C 40	Strang, James	April 27, 1904	C 10
McKinnon, Arch'd	April 3, 1905	C 102	Sullivan, John	July 4, 1916	C 139
McMillan, Peter	March 29, 1905	C 94	Summers, Joseph	May 17, 1920	C 141
McMurtrie, John	March 29, 1905	C 96	Thomas, John	March 29, 1905	C 97
Moore, Wm. H	June 17, 1905	C 119	Vass, Robt	Dec. 12, 1904	C 53
Morris, John	Dec. 27, 1904	C 57	Vater, Charles	April 6, 1904	C 66
Myles, Walter	April 3, 1905	C 100	Webber, Chas	Sept. 13, 1904	C 32
Nash, Isaac	June 1, 1904	C 120	Webber, Charles F	Sept. 13, 1904	C 33
Neave, Wm	Oct. 12, 1904	C 43	Whiting, Geo	May 29, 1905	C 117
Nelson, James	April 27, 1904	C 16	Wilson, Austin	Feb. 7, 1905	C 67
Nimmo, Jas. P	April 3, 1905	C 103	Wilson, Thos	April 27, 1904	C 11
Nimmo, Richard E	April 18, 1911	C 133	Woodburn, Moses	March 29, 1905	C 83
O'Brien, Geo	Feb. 6, 1905	C 66	Yarrow, Geo	Nov. 3, 1904	C 46
Pearse, Thomas W. H	April 14, 1916	C 138			

* Issued in lieu of No. C 132, lost.

MINE SURVEYOR CERTIFICATES ISSUED UNDER THE "COAL-MINES REGULATION ACT AMENDMENT ACT, 1919."

Name.	Date.	Certificate No.	Name.	Date.	Certificate No.
Baile, Wynne Jeffreys	Oct. 3, 1919	16	Reger, Frederick William	Oct. 3, 1919	7
Bowerman, Everard S	Dec. 14, 1920	39	Richards, Charles Clifton	Oct. 3, 1919	19
Boyce, Joseph Patrick	Oct. 3, 1919	5	Richards, James A	Oct. 3, 1919	15
Davis, Gerald D	Oct. 3, 1919	28	Ridley, James	Oct. 3, 1919	18
Daniell, George W. B	Oct. 3, 1919	29	Roaf, Joseph Richardson	Oct. 3, 1919	14
Delaney, James	Oct. 3, 1919	21	Scott, Thomas Wright	Oct. 3, 1919	4
Dickson, James	Oct. 3, 1919	3	Strachan, Robert	June 21, 1920	36
Garman, Maurice Wilbur	Oct. 3, 1919	11	Townsend, Neville F	Nov. 17, 1919	31
Gregory, P. W	Nov. 17, 1919	32	Vallance, William Dixon	Oct. 3, 1919	8
Hargreaves, James	Nov. 29, 1920	33	Verkirk, Lucas	June 21, 1921	42
Hepburn, James T	Dec. 14, 1920	37	Waddington, George W	June 21, 1920	35
Holdsworth, William	Oct. 3, 1919	9	Wark, Samuel David	Oct. 3, 1919	20
Hughes, Edward	Dec. 14, 1920	38	White, Harold	Oct. 3, 1919	25
Hunter, George	Oct. 3, 1919	30	Wilson, R. Robinson	Oct. 3, 1919	12
King, Alfred George	Oct. 3, 1919	27	Wilson, Arthur Rupert	Oct. 3, 1919	13
Lancaster, Peter	Oct. 3, 1919	23	Wilson, Charles James	Oct. 3, 1919	22
Lindoe, Luke	June 21, 1921	41	Wilson, Hartley Paul	Oct. 3, 1919	24
Lynn, Albert Crompton	Oct. 3, 1919	17	Wilkie, Octavius B N	Oct. 3, 1919	26
Miard, Harry Ernest	Oct. 3, 1919	2	Wilkinson, George	Oct. 3, 1919	1
McCulloch, Robert	Oct. 3, 1919	6	Wright, Austin	Dec. 14, 1920	40
Owen, William Arthur	Oct. 3, 1919	10			

INSPECTION OF METALLIFEROUS MINES.

KOOTENAY AND BOUNDARY DISTRICTS.

REPORT BY ROBERT STRACHAN, SENIOR INSPECTOR.

I have the honour to submit my annual report as Inspector of Metalliferous Mines for the Kootenay and Boundary Districts for the year 1921.

For the purpose of inspection the district is divided into two, the East Kootenay portion being directly in charge of John MacDonald, Inspector of Mines, Fernie, while the West Kootenay and Boundary is in charge of H. H. Johnstone, Temporary Inspector of Mines, Rossland.

During the year mining operations have been very quiet, especially in the West Kootenay and Boundary District, many of the mines restricting their operations and some closed down temporarily.

The *Emma* mine at Coltern was shut down in June, the ore-body having become exhausted, and the plant was dismantled.

In the Nelson District the *Eureka*, *Mountain Chief*, and the *Yankee Girl*, all of which were working during 1920, remained idle during the year.

The *California* closed down early in the year, while the *Molly Gibson*, which had been closed down, was reopened in November under lease.

The *Granite-Poorman*, after being closed down for a long time, was also reopened in June and worked steadily until the end of the year.

In the Ymir District the *Nugget* mine worked during the entire year, while the *Queen* was operated for a brief period.

In the Trail District the *Le Roi* and *Centre Star* mines operated during the whole year, while the *Velvet-Portland* was in operation until November.

A force of men was employed around the *Le Roi No. 2*, engaged in reorganizing the mill, and some ore from the dump was treated.

In the Slocan District conditions were very quiet, the *Slocan Star* closing down in March, pending a reorganization of the *Ivanhoe* mill which they had acquired, and it was November before mining was resumed.

The *Rambler-Cariboo* worked intermittently during the year with a small force, while the *McAllister*, *Standard*, *Noble Five*, *Van Roi*, and the *Queen Bess* all worked during some portion of the year.

The *Bosun* operated during the entire year with an average force of twenty-one men, and no work was carried out at either the *Sovereign*, *Wonderful*, *Meteor*, *Ivanhoe*, *Hewitt*, or the *Ottawa*.

In the Ainsworth District the *Blue Bell*, *Silver Bell*, *Silver Bear*, *Carey*, *No. 1 Ainsworth*, *Highland*, and *Whitewater* operated during some portion of the year, while the *Beatrice* and *Index* did not do any mining.

The *Utica* at Kaslo was reopened in October with a force of sixteen men.

In the Boundary District the *Bell* and *Sally* mines at *Beaverdell* worked steadily during the year, and the *Providence* mine at Greenwood closed down in August, with a watchman in charge to attend to the pumps.

The *Rock Candy* mine at Grand Forks did not operate during the year, and, as I have already mentioned, the *Emma* mine was abandoned.

In the East Kootenay District the *Sullivan* mine worked very steadily during the year, both in the upper workings and in the lower. The development-work here is still being energetically pushed, and the indications are that the present output of 950 tons a day will be largely increased in the near future. At the end of the year the work of clearing the ground for a concentrator was commenced, and plans are ready for enlarging the first 400 feet of the tunnel to allow of the using larger mine-cars. In the mine some large stopes have been opened up, and owing to the flatness of the ore-body large scrapers are in use for mucking. These large scrapers are operated by compressed hoists, and electric search-lights of 500-candle power are fitted on stands with swivel joints for illuminating these large stopes.

A few men were employed during the year turning over the old dump at the *North Star* mine, and the *St. Eugene* was closed down early in the year.

The following table shows the number of men employed in the mines inspected during the year as compared with the previous year, according to district:—

	1920.	1921.
Nelson	141	43
Trail	325	224
Slocan	349	101
Ainsworth	119	54
Boundary	145	62
Revelstoke	20	...
East Kootenay	250	220
Totals	1,349	706

This shows a reduction of about 47.6 per cent. in the number of workmen engaged in and around the mines.

In addition to those inspected, there are a number where a few workmen have obtained a lease, and, as I have mentioned in previous reports, it is very difficult to keep trace of these owing in a great measure to no reports being sent to this office of either the temporary abandonment or reopening.

Owing to the above curtailing of operations only twenty-four mines were inspected, as compared with forty-two during the previous year. Of this number, only nine mines had a working staff of over twelve men and fifteen had less than twelve men employed.

One hundred and twenty-four visits of inspection were made during the year; in the case of the larger mines this was made almost monthly, and in the case of the others as occasion warranted.

The general conditions with respect to the enforcement of the "Metalliferous Mines Inspection Act" were fairly good in the case of the larger mines; in some of the smaller properties complaints have had to be made with respect to ladder-ways and explosives. In some of the latter class of mines the method of handling and storing the explosives taken in for the use of the working shift is far from satisfactory or safe. Proper receptacles or storage-places should be provided for the storage of explosives when taken underground and not immediately used, while the explosive should only be issued by or under the supervision of some competent person appointed for the purpose. In some of the smaller mines more attention should be paid to the installing of the ladder-ways, more especially in inclined shafts, that substantial platforms be provided at intervals of not more than 20 feet. These ladders are generally put in temporarily or as a matter of prospecting, and when the shaft later develops great reluctance is shown to have these ladders made to comply with section 31, Rule 21. Under the conditions, I feel it would be better to have them built in as provided by the Act in the first case.

Apart from the foregoing, the general conditions in and around the mines are very good, and especially in the larger mines the managers are to be complimented on their efforts to enforce the provisions of the Act.

The conditions around the cook and bunk houses are very good, and in this respect I should mention that the cook and bunk house at the *Sullivan* mine was destroyed by fire during the year, causing a great deal of inconvenience. The new arrangements provide for twelve bunk-houses, each to contain a limited number of men, two to each room, and a large cook-house. Three of these bunk-houses are already in use, with a temporary cook-house, and all the buildings are to be heated by a common steam plant.

ACCIDENTS.

Seven accidents have been reported during the year, six from the East Kootenay District and one from the West Kootenay. The seven accidents resulted in the death of one man and serious injury to six. Haulage caused four accidents, machinery one, cave of roof one (fatal), and miscellaneous one. According to occupation, three miners were injured (including the fatal accident), one mucker, one axeman, one machinist, and one motorman. Six of the accidents occurred inside the mine and one outside.

In the case of the fatal accident, which occurred at the *Rambler-Cariboo* mine, the workman had been sent into an old stope which, after the ore had been extracted, had been filled up with mill-feed ore. No inspection of the stope had been made from the previous day, and when the foreman visited the stope about noon he found the workman dead under a cave of roof-rock.

When I visited the place a few days after the accident I found about 150 square feet of the hanging-wall or roof without any support and full of breaks or fractures, due no doubt to settlement after the ore had been extracted. I feel that more care should be taken to see that the working-place is secure, and while a certain amount of this care may fall on the miner, twenty-four hours is too long a time to elapse between inspections; that is, if these inspections are to count for anything.

In stopes where the mineral has been extracted and are being used for storage or travelling, more and better inspections should be made, and, if possible, some method of systematic timbering either could or should be adopted. In this case the Coroner decided that no inquest was necessary.

The other accidents, all of which occurred in the *Sullivan* mine, four were due to haulage, and I am glad to report that greater care is being taken in this direction.

Twelve samples of mine-air were taken during the year and sent to the Department of Mines at Ottawa to be analysed, and the results showed the conditions to be fairly good. In those taken at the *Sullivan* mine, Kimberley, a very small percentage, not more than 0.04, of carbon monoxide was noted, and is probably due to the practice of bulldozing, breaking-up of large rocks by placing untamped charges of explosives on them.

It is very disappointing to note the lack of interest in the work of first aid to the injured and mine-rescue. In the case of the latter, mine-rescue apparatus have been installed at both the *Sullivan* and *Rossland* mines, but the condition in which they are kept, and the lack of properly trained men to use them, make them more dangerous than useful.

No classes in first aid to the injured have been held during the year at any of the mines, and I feel it would be profitable both to the workmen and the employers to make a greater effort to maintain interest in this humanitarian work.

We wish to thank the officials and workmen for their assistance in discharging our duties during the year.

There have been no prosecutions during the year, and following is a list of the accidents reported during the year:—

LIST OF ACCIDENTS IN METALLIFEROUS MINES, KOOTENAY-BOUNDARY DISTRICT, DURING 1921.

No.	Mines.	Date.	Name.	Occupation.	Details.
1	Sullivan (C.M. & S. Co. of C.)	Dec. 12	A. Bortolozzi	Miner	Passing loaded car, when it dumped over on top of him, breaking his arm (occurred in 1920, not reported till March, 1921).
2	Sullivan (C.M. & S. Co. of C.)	Jan. 4	Sid Mayne	Axeman	Power-driven saw struck knot, deflecting it so that it struck the hand, severing thumb.
3	Sullivan (C.M. & S. Co. of C.)	April 27	Von Battista	Miner	Passenger-locomotive bumped into stalled train, causing party to fall off, his foot getting caught under train, probably fracturing it.
4	Sullivan (C M. & S. Co. of C.)	June 13	Gus Nelson	Machinist	Fractured leg, caused by empty car of a trip jumping off track.
5	Sullivan (C.M. & S. Co. of C.)	" 25	Ar. Shuauh	Motorman	Severely injured, due to locomotive colliding with another locomotive.
6	Rambler-Cariboo (R.C. Mining Co.)	July 24	Geo. Heatherton	Miner	Cave of rock in stope; fatal.
7	Sullivan (C. M. & S. Co. of C.)	Oct. 18	Philip McNeill	Mucker	Piece of rock rolled down from top of muck-pile, fracturing thigh-bone.

NICOLA-PRINCETON INSPECTION DISTRICT.

REPORT BY JOHN G. BIGGS, INSPECTOR.

I have the honour to submit my annual report as Inspector of Metalliferous Mines for the Nicola-Princeton District for the year ending 1921.

Mining has not been at all active, with most of the larger mining companies suspending operations during the latter part of the year 1920 owing to the cost of production and the unsatisfactory conditions of the markets, and while it must be admitted that there has been a large decrease in the production costs during the year, the markets for the products have remained very sluggish, with the eventual result that the different mining companies have not felt justified in operating.

There was only one mine in this district operated during the whole of the year, which was the *Horn Silver* mine in the Osoyoos District, which employed an average of sixteen men.

The Hedley Gold Mining Company commenced operations at the *Nickel Plate* mine, situated at Hedley, in May, work being only of an exploratory nature; all ore produced was stored in bins, the mill not operating during the year.

The Kamloops Copper Company, while not operating the *Iron Mask* mine during the year, has employed a stall of men in the installation and equipment of machinery for reducing the cost of production, while the Canada Copper Company has not operated the *Copper Mountain* during the whole of the year.

Conditions prevailing at the mines inspected during the year I have found to be good and the provisions of the "Metalliferous Mines Inspection Act" well adhered to, and when advised of any omissions these are immediately attended to. I have always found the managers of the different mines showing a desire to conform with requirements of the Act. It is also very gratifying to report that there have been no accidents at the metalliferous mines in this district during the year, which is a good record and goes to show that care is being taken by both workmen and officials.

The following is a brief description of the various mines that have been operated and plants improved during the year:—

Horn Silver. P. W. Powell, superintendent; operated by Powell Bros. and Mrs. Powell, Similkameen and Victoria. This mine is situated about 15 miles below Keremeos and 6 miles below the Similkameen Station, and is reached by a fairly good wagon-road used for hauling the ore from the mine to the depot on the Great Northern Railway. The mine is situated on the east side of the mountain at an elevation of 2,400 feet and about 1,100 feet above the mine camp.

There has been very little development-work done at this mine during the year, the ore being extracted from both the upper and lower levels. The roof, being of a rather fragile nature, necessitates a careful system of timbering; in the upper level the method of work is at present a modified system of long-wall, all waste material being thrown into the gob and used for packing the roof at the face, being well supported by means of posts and stulls. The method of work in the lower level is stoping.

There has been no change made with this plant during the year, the ore being brought out of the mine by means of small cars and dumped over a bar-screen and sorted, where it is loaded into buckets attached to an aerial tramway 3,000 feet in length and conveyed to the foot of the mountain, where it is automatically dumped into an ore-bin and hauled by teams to the depot at Similkameen.

During my inspections I have always found this mine to be in good condition, well timbered, and the provisions of the "Metalliferous Mines Inspection Act" well adhered to. Fifty-per-cent. Polar Forsite is used for blasting, which is stored in a magazine and only sufficient taken out for a day's supply. The only power used is a 50-horse-power gas-engine for driving a compressor having a capacity of 102 feet a minute, which is used for driving power-drills.

Nickel Plate. G. P. Jones, general manager; Wallace Knowles, superintendent. This mine is situated in the Osoyoos Mining Division, on the Nickel Plate mountain at an altitude of 5,500 feet and 3,800 feet above the town of Hedley, where the mill for treatment of ore is situated. The mineral is found in lenticular bodies developed by tunnels driven through the country-rock until the ore-bodies are reached. All the ore is taken

out by a 16 by 8 well-timbered slope (of 20°) provided with double tracks and a travelling-way, from which levels are started approximately every 100 feet.

Skips having a capacity of 2 tons of ore are operated by separate compressed-air engines situated at the top of the incline, are loaded at the various chutes and dumped into a common ore-bin, where the ore is loaded into a train of cars hauled by an electric trolly-motor to the top of the surface incline, where it is dumped into a large bin, from which it is drawn into skips which operate on this gravity-plane to the mill.

The gravity-tram is operated in two stages. The skips have a capacity of 5 tons. In the first stage the skips are lowered a distance of 4,000 feet on the incline to the central station, where they are transferred to the lower portion of the tramway and continue a distance of 6,000 feet, descending a total vertical distance during the trip of 3,800 feet.

This mine ceased operations in November, 1920. When work recommenced in May, 1921, it was of an exploratory nature, with about thirty men employed.

During the year the Dixon slope has been extended from the 1,080- to the 1,260-foot level, a distance of 180 feet, while the 102 on the 1,000-foot level has been extended 500 feet with diamond-drilling to prove the ore-bodies, with a little stoping. About 2,000 tons of ore was sent over the incline to the ore-bins at the mill during the year, which was utilized for a balance for the tramway in order to maintain haulage facilities for the transportation of equipment and supplies for the employees residing at the mine. Operations were again suspended during the month of November.

There has been no change made at this plant during the year, which consists of a 2,000-horse-power hydro-electric plant situated near the Similkameen river, 1 mile below the town of Hedley, which is used for driving a 400-horse-power, belt-driven, 17 by 28 by 36, 2-stage compressor, and one 2-stage compressor, 15 by 25 by 24, direct-driven by a 440-horse-power synchronous motor. An auxiliary steam plant consists of a single Goldie-Corliss engine, 21 by 30, directly connected to a 375-kw. generator, with a Doble water-wheel and Lombard governor attached; one 8 by 14 vacuum O pump, motor-driven, for Oliver filter at the mill; and three return-tubular boilers having an aggregate horse-power of 315, all situated at the mill.

Sixty-per-cent. Polar Forsite is used for blasting, all shots being fired by fuse and caps. During my inspections I have found the provisions of the "Metalliferous Mines Inspection Act" well adhered to and every precaution being taken to protect the workmen.

Iron Mask.

A. Wallinder, superintendent. This property consists of the *Iron Mask* and *Erin* and is situated about 7 miles south-east of the city of Kamloops at an elevation of 3,600 feet. Two shafts, the *Iron Mask* and the *Erin*, have been connected for ventilation purposes. The mineral consists of copper in the form of sulphides and carbonates. The power being used is electric and is transmitted over high-voltage wires from the city of Kamloops at a voltage of 11,000, and is cut down to 440 volts for use in and around the mine.

The mine has not been operated during the year owing to the unsatisfactory state of the copper market. Several improvements have been done by way of repairs to the *Iron Mask* shaft and the installation of new machinery and equipment for the better treatment and handling of the ore.

Repairs have been continued at the shaft during the year which has been retimbered with 14-inch square sets from the 150- to the 750-foot level. Ore-pockets have been enlarged to 250 tons capacity, with a waste-pocket of 75 tons capacity, and the 750 station considerably enlarged.

The mill crushing plant was increased by the addition of 42-inch rolls in conjunction with the Gates gyratory crusher, enabling to crush from 2-inch to ¾-inch mesh, which should appreciably increase the capacity of the ball-mill; also the mill storage-bins were increased to 500 tons capacity. The tailings settling capacity was doubled by the installation of a new 12- by 50-foot concrete Dorr thickener.

The filtering of the flotation concentrates, as well as the hauling of the same to the Canadian Pacific Railway siding, has been eliminated by the installation of a pipe-line and a series of settling-tanks at the loading-track. The pumping plant at the Thompson river, 3½ miles distant and 1,750 feet lower elevation, was completed, which will assure an ample supply of good water for both milling and domestic purposes.

During my inspections of this mine I have found the provisions of the "Metalliferous Mines Inspection Act" well adhered to, with good accommodations provided for the workmen.

COAST INSPECTION DISTRICT.

REPORT BY JAMES DICKSON, INSPECTOR.

I have the honour to submit my annual report as Inspector of Mines for the above district during the year ending December 31st, 1921.

Britannia. E. J. Donohue, general manager; G. Nettleton, secretary-treasurer; C. P. Browning, superintendent. These mines, the property of the Britannia Mining and Smelting Company, are situated on Howe sound, about 28 miles from Vancouver, and are reached by a daily steamship service. Owing to the disturbed condition of the copper market at the end of 1920 this company was not operating on its usual large scale and none of the ore produced was milled. The ore was put into bunkers, where it is readily available when required, 47,380 tons being produced during the year and practically all in the first three months. The mill, which had been idle for several months, caught fire on March 19th, 1921, and was totally destroyed.

In the main operation a drift 186 feet long was driven on a 30° slope from the 1,800-foot to the 1,700-foot level, at which point a crusher-chamber was enlarged for the installation of the 24 by 36 jaw-crusher which previously operated on the 1,800-foot level, complementing the 7½-kw. gyratory crusher. With the above installation it is arranged to give a 2-stage preliminary crushing to the ore, reducing same to a 2½-inch ring before it leaves the mine.

Practically all the development-work has been done in the *Victoria* part of the property. The development footages were as follows: Drifts, 1,909 feet; crosscuts, 1,027 feet; raises, 3,194 feet; and winzes, 118 feet, giving a total footage of 6,248. There was no diamond-drilling during this period.

The hoisting equipment at the *Victoria* has been installed on the 1,900-foot level, and the ore below this will be hoisted to the 1,900-foot level and transported from the *Victoria* to the portal of the 1,600-foot level of the *Empress* by means of an aerial tramway. From this point the ore will be carried through the main operation to the 2,200-foot level, receiving, en route, the preliminary crushing referred to above.

Near the entrance to the *Victoria* mine a sawmill has been erected with a capacity of 30,000 feet a day, from which all the timber required is handled directly to the workings. A three-story 30- by 100-foot bunk-house and a 25- by 40-foot dry-house have been built to house and care for sixty-five men.

During the year the 1,400-foot raise from the 4,100-foot level (elevation of the top of the mill-bins) to the 2,700-foot level (elevation of head of the incline) was holed through and is now being put in order for the handling, between these points, the total production of the Britannia mines.

This raise, having a total height of 1,400 feet, was put through without an accident of any kind, although two men, engaged in drawing the muck from the raise after it had been holed, had a narrow escape owing to the midwall between the chute and the manway giving way and allowing the muck to fall down the manway, blocking and partly wrecking the same. Luckily the men were in a station (700 feet from the bottom) when this occurred and were not injured by the falling debris.

Rescue crews were immediately put to work to ascertain the fate of the two men and attempts were made to reach them from below, but after two days this was abandoned, as there appeared to be a greater likelihood of more men being lost than of reaching the missing men. An attempt to reach the men from the top was then made, and after five days' sinking and timbering through the loose debris the men were reached and found to be, apart from a little suffering from exposure, in fair condition. After being shut in for over seven days they were able, after receiving a little stimulant, to climb, unassisted, to the station above. Much credit is due to the management and men engaged in this difficult and dangerous rescue operation.

The company is now engaged in the preparation and construction of a new mill and concentrator embodying approved modern advances in the preparation of concentrates and having a capacity of 2,500 tons a day.

There was one fatal accident at this mine during 1921; this occurred near the portal of the *Victoria*, where a trammer was killed by a moving car.

The above mines were found to be well ventilated and the provisions of the "Metalliferous Mines Inspection Act" appear to be fully observed.

Bowena. This property is situated on the eastern shore of Bowen island, near Deep Cove, and is owned by the Bowena Copper Mines, Limited. The mine was operated for a few weeks by a small crew under H. Gerhardi and then closed down. The mine and mill (100 tons capacity daily) are very conveniently situated for shipping, as they are on the shore on the eastern coast of Bowen island about 12 miles by steamship from Vancouver.

Sunloch.—This property is situated near the mouth of Jordan river and is about 40 miles from Victoria. Apart from a little prospecting, nothing has been done at this property during 1921.

Clayburn. These mines are owned and operated by the Clayburn Brick Company and produce the different clays required in the manufacture of brick, firebrick, sewer-pipe, and other products of that nature. The seams of clay have a slight dip and are worked on the pillar-and-stall system, the places being driven 12 feet wide and 6 to 10 feet high. The roadways are well timbered and the ventilation, which is natural, is good. There was one fatal accident during 1921, a miner named De Lella being so severely injured by material from a shot that he died.

There are several openings in the different seams and the mines are worked intermittently, the same crew of men being moved from mine to mine according to the kind of clay required at that particular time. The mining operations are under the direction of Elijah Priest, mine manager.

NORTHERN INSPECTION DISTRICT.

REPORT BY T. J. SHENTON, INSPECTOR.

I have the honour to submit my annual report for the Northern Inspection District, consisting of the Portland Canal, Nass River, Skeena, Queen Charlotte, and Atlin Mining Divisions.

ATLIN MINING DIVISION.

This Division was not visited by me during the current year, as arranged by the Department; I therefore have no report for this section.

PORTLAND CANAL MINING DIVISION.

SALMON RIVER SECTION.

Premier. In this section is situated the *Premier* mine, operated by the Premier Gold Mining Company, Limited. D. L. Pitt, general manager; B. Smith, assistant manager; D. McDonald, mine superintendent. The mine is on the Salmon river, 14 miles from tide-water at the head of the Portland canal. The mine officials have been intensely active during the year in the erection of buildings, consisting of bunk-houses, dry and wash rooms; in the instalment of a steam-heating plant and a hospital, now completed, and in charge of Dr. G. E. Bayfield. In addition, the 150-ton mill has been completed and has been in operation for several months; the aerial tramway, 11½ miles long, has been completed and began operation about December 20th of this year. Two large compressors coupled to two Diesel units have been installed and are now in operation. A concrete foundation at Cascade creek has been put in ready for the machinery for the main power-house, which, it is expected, will be completed early in the spring of 1922. The mine has been in continuous operation during the year, excepting a two-week interval in May due to wage dispute.

The average number of men employed for the year was 382. Total length of tunnel and drifting, 4,027 feet; total of diamond-drilling accomplished for the same period, 6,821 feet. About 50 feet from entrance to No. 2 tunnel a small shaft, 5 by 6 feet, has been sunk during the year to a depth of 420 feet, connecting Nos. 3 and 4 workings; it is supplied with steel cage with guides and safety-catches, and is used for the purpose of hoisting and lowering men and material. Five persons are permitted to ride on each cage.

In the many visits of inspection made by me during the year I have found the management always ready to co-operate in the rigid operation of the law, and all matters within the mine and upon the surface to be proceeding in accordance with the "Metalliferous Mines Inspection Act."

BEAR RIVER SECTION.

Swamp Point. This mine is situated some 30 miles from Stewart, on the Portland canal, and is owned and operated by the Granby Consolidated Mining, Smelting, and Power Company. The mine was closed down for several months during the fall of 1920 and began operations again in the month of March of the present year. The material mined is limestone, which is shipped by scows to Anyox as flux for smelting purposes. The manager is Bert Wing, who was appointed when resumption of work took place. The average number of men employed was eight and the total output in limestone 15,734 tons. The entire operation I have found to be carried on in strict conformity to the stipulations of the "Metalliferous Mines Inspection Act."

NASS RIVER MINING DIVISION.

OBSERVATORY INLET.

At the head of this inlet is situated the mines of the Granby Consolidated Mining, Smelting, and Power Company, the *Hidden Creek* and *Rambler*, in the locality of Anyox.

Hidden Creek. The official staff of present management consists of H. S. Munro, general manager; J. A. Bancroft, assistant manager; J. Tuttle, Jr., mine superintendent; and J. Swanson, mine foreman. Operations have been continuous through the year. Early in the year there was a loss by fire of the main crusher No. 2 at the mine, and another new crusher, No. 3, being prepared for future operation had to be hurriedly pushed to completion. The rebuilding and installation of the new No. 2 crusher was not completed until the month of October; the structure is concrete and fire-proof. E. E. Campbell, previously assistant manager, left the company's service early in the year and his place was filled by Dr. Bancroft.

This year the output of the mine for a single day was broken, being an increase over that of any other day's output in the history of the operation. The average number of men employed was 212, as against 385 for the year 1920. During the year there were two accidents which, while rather serious, were not fatal. The small number of accidents in so large an employment is in a very considerable measure due to the strict co-operation of the management in the application of the "Metalliferous Mines Inspection Act" and the commendable system of operation. On all occasions of my visits of inspection I have found all conditions respecting the "Metalliferous Mines Inspection Act" being rigidly adhered to.

Rambler. This mine is situated about 1½ miles directly west of the smelter-site and the product is quartz used for fluxing. The operation of the mine is under the charge of T. Oxley, and during the present year has not suffered one accident. In this, as that of the *Swamp Point* mine, part of the operation is on the surface, and the quartz produced on the surface is put down through chutes into the cars in the tunnel driven beneath, and from thence is carried by tram to the bunkers near to the smelter. It is found necessary at times to break the large lumps of quartz with hand-hammer before transporting, and to prevent the eyes of the men being injured by pieces of rock the company very willingly agreed, at the suggestion of the Inspector, to the use of wire goggles, a perfect preventive of accident in the case. The average number of men employed for the year was twenty-three and the tonnage in output 22,773 tons. In all inspections made during the year I have found the conditions to agree with the "Metalliferous Mines Inspection Act."

Golskiesh. This mine is situated about 3 miles south of Granby harbour on Deep bay; it is operated by the Golskiesh Mines, Limited, and is managed by W. H. Heidman. The product is a flux, which is sold to the Granby Consolidated Mining, Smelting, and Power Company and is conveyed from the mine to the wharves in Granby bay by the company's scows. A small gas-driven compressor furnishes the power for drilling purposes. The average number of men employed for the year was ten and the output was shipped to the Granby smelter. In all of my inspections of this operation during the year I have found the same to be carried on in accordance with the "Metalliferous Mines Inspection Act."

ALICE ARM.

From the head of this arm a distance of 18 miles along the Kitsault river, in a north-easterly direction, is situated the mines of the Taylor Engineering Company. Connecting tide-water with the mines is a narrow-gauge railway, over which the ore from the mines is transported to the bunkers at the wharves situated at the head of the bay. The present management consists of C. B. North as general manager and J. Milligan as assistant manager.

Dolly Varden.—An unusually short period of operation took place this year; the mine was opened up in the early part of the month of August and closed down in the latter part of the month of September. For the time of operation there was employed on an average twenty-two men.

Wolf.—This property, operated by the same company, is 3 miles farther north from the *Dolly Varden* property, and during the present year, with the exception of the operation of the new power-house situated on this property, the mine has been idle. In my inspections of the operation I have found the prevailing conditions to be fairly in accord with the "Metalliferous Mines Inspection Act."

North Star.—This property joins that of the *Dolly Varden* mine and is owned by the McAleenan Bros., of Alice Arm, and is under the supervision of J. McAleenan. During the present year this property has been idle, and from the dump of the same about 85 tons of ore was shipped to the smelter by the *Dolly Varden* management.

OMINECA MINING DIVISION.

SKEENA SECTION.

Silver Standard.—This mine is situated on Glen mountain in the vicinity of Hazelton. Owing to high prices of material, a low market for silver, and other disadvantages, such as freight rates of railway, etc., the mine was closed in the fall of 1920, and during the present year has remained so. The metal market having improved during the latter part of the present year, it is understood that the company expects to resume operations early in the coming year.

Delta Copper Co.—This company's mine is situated on the Rocher Déboulé hill in close proximity to that of the *Rocher Déboulé* mine, in the district of Hazelton. Under the supervision of Mr. Norrie-Lowenthal some diamond-drilling was done during the months of July and August and four men were employed. The work terminated at the end of August.

HUDSON BAY MOUNTAIN.

Very little work has been done in this section this year. I made one visit to the properties owned by Mr. Aldridge, Donald Simpson, and Kelly, situated on this hill. These properties are situated about 13 miles from Smithers, and the *Premier* group, or *Kelly* claims, were in operation at the time of my visit, four men being employed. The *Victory* group and the *Aldridge* group were idle. The *Empire* group, owned by D. Simpson, was being developed at the time and the work was continued until the month of September, when Mr. Simpson ceased for the winter.

The Duthie Ship Company's representative, J. Turner, came in in the month of November and entered upon the further development of the properties owned by Mr. Aldridge, called the *Mamie* group of claims. At present two men are employed in development-work; also a cook.

Grouse Mountain.—This mine is situated on Grouse mountain, about twenty miles north-east of the town of Telkwa. It was under bond for the year 1920 to the Cassiar Crown Copper Company. The mine ceased operation in the fall of said year and has not resumed operation to present date.

QUEEN CHARLOTTE MINING DIVISION.

Moresby Island.—Within the harbour of Ikeda is situated the *Ikeda* mine, which ceased operation in July of year 1920. At the time the reason given by the secretary for the cessation of work was that the property had been taken over by a new Japanese mining company. The mine has remained closed since the fall of last year.

Collison Harbour.—Within this harbour is situated the *Thunder* group of claims, owned by Ike Thompson, of Jedway. During the present year these claims have been under option to a syndicate, I was informed, which intends to begin active operations in the spring of 1922.

Copper Island.—Work of development of this property by the owner, A. Heino, has proceeded during the year, but no shipments of ore have been made.

South Easter Mine, Graham Island.—This property has not done anything during the year.

Burnaby Island.—The *Mother Lode* and the *Bank of Commerce* claims of this island have been in operation on a small scale. Mr. Campbell and Wilds, the owners have done considerable development-work during the year.

Shuttle Island.—This group of claims, owned by a Vancouver party, has not done any development-work during the year.

Gold Harbour.—Two men have been employed on the claims of the *Early Bird* group, in the persons of T. S. Davey and Nels Pearson, during the year.

Blue Mule Group.—This group of claims within the Kootenay harbour is leased by J. H. Jones and Nels Larson, who have been developing the claims during the present year.

SKEENA MINING DIVISION.

COAST SECTION.

During the year the operation of the present holdings in the property of the *Drum Lummon* mine has been under the hands of a new ownership—Glenville A. Collins Engineering Company, Limited. Operations began in the middle of the summer and an average of four men was employed until nearly the end of the year. A small shipment of some 4 tons of ore was made in the month of October.

Belmont-Surf Inlet.

This mine is situated on Princess Royal island, about 100 miles south of Prince Rupert, and is owned by the Belmont-Surf Inlet Mines, Limited. The officers of the company in charge are: F. H. Penn, manager; P. W. Racey, engineer; and C. P. Seale, mine superintendent. The predecessor of Mr. Penn (F. W. Holler) left the service of the company in the month of April of the year, and Mr. Penn was promoted to take the position. The average number of men for the year will be 200. The number of accidents for the year was five, one of which was fatal. The internal workings of the mine from a safety standpoint are, if anything, in advance of similar conditions prevailing in many of the other mines of my district, but I regret that, notwithstanding, the percentage of accidents for the number of men employed has been considerably greater. For the violation of mine regulations, approved by the "Metalliferous Mines Inspection Act," Charles Palmergerg and Charles Graham were convicted during the present year and were each fined $10.

In the month of October of the year P. W. Racey, engineer of the company, with other officers of the company, including Dr. Allen Beach, has taken pains in raising a class of seventy students in the study of first-aid work, which is a very creditable beginning. The matter is of the most intense necessity and will be of the greatest possible help in rendering efficient aid to the injured, and an important aid to the prevention of accident in the possession of more knowledge among the employees.

Pugsley.

This property, also owned by the Belmont-Surf Inlet Mines, Limited, emerged into a full mine in the month of October of the present year; development on a small scale had been continued during the former part of the year. Only a few men, some four or six, had been previously employed up to the month of October, after which preparations were being made for the increase necessary for a larger production. A short distance from the mouth of the mine the company has built ore-bins in size 150 tons, into which the output of the *Pugsley* mine will be delivered. A connection by aerial tram from this point to the ore-bins at the head of the *Surf* mine; it is a 2-bucket, high-speed, reversible type; capacity of bucket, 1,500 lb.; span between terminals, 2,300 feet; operated by a 25-horse-power motor. Capacity of tram in eight hours is 100 tons and elevation between terminals is 390 feet. In my inspections of both these properties during the year I have found the conditions to agree fairly with the "Metalliferous Mines Inspection Act."

COAL-MINING IN BRITISH COLUMBIA.

By Wm. Fleet Robertson, Provincial Mineralogist.

During the year 1921 there was mined in the various collieries of the Province 2,569,639 tons (2,240 lb.) of coal, a decrease from the preceding year of 127,135 tons, equivalent to about 4.3 per cent.

The output of coke was 59,434 tons as compared with 67,792 tons in 1920, a decrease of 8,358 tons or 12.3 per cent.

The following table shows, for the past eleven years, the output and the *per capita* production of the various districts:—

Output and Per Capita Production of Various Districts.

Year.	District.	Gross Tons of Coal mined during Year.	Total No. of Employees at Producing Collieries.	Tons of Coal mined per Employee for Year.	Number of Men employed Underground in Producing Collieries.	Tons of Coal mined per Underground Employee for Year.
1911	East Kootenay District	442,057	2,197	201	1,585	272
	Coast District	1,855,661	4,676	397	3,627	511
	Whole Province	2,297,718	6,873	334	5,212	440
1912	East Kootenay District	1,261,212	2,410	523	1,780	708
	Coast District	1,764,497	4,720	374	3,495	504
	Whole Province	3,025,709	7,130	424	5,275	574
1913	East Kootenay District	1,331,725	2,666	500	1,965	678
	Coast District	1,239,035	3,777	328	2,865	433
	Whole Province	2,570,760	6,443	399	4,830	532
1914	East Kootenay District	955,183	2,397	399	1,749	547
	Coast District	1,211,245	3,335	363	2,518	481
	Whole Province	2,166,428	5,732	379	4,267	508
1915	East Kootenay District	852,572	1,748	488	1,183	721
	Coast District	1,120,008	3,230	347	2,512	446
	Whole Province	1,972,580	4,978	396	3,695	534
1916	East Kootenay District	882,270	1,674	527	1,125	784
	Coast District	1,603,310	3,386	474	2,569	624
	Whole Province	2,485,580	5,060	491	3,694	673
1917	East Kootenay District	551,751	1,481	372	944	584
	Coast District	1,846,964	3,689	501	2,816	656
	Whole Province	2,398,715	5,170	463	3,760	638
1918	East Kootenay District	732,864	1,327	552	814	900
	Coast District	1,845,860	4,100	450	2,844	645
	Whole Province	2,578,724	5,427	475	3,658	705
1919	East Kootenay District	558,806	1,369	409	1,000	559
	Coast District	1,850,142	4,597	402	3,145	588
	Whole Province	2,408,948	5,966	404	4,145	581
1920	East Kootenay District	847,389	1,582	536	1,062	798
	Coast District	1,849,385	4,767	388	3,129	591
	Whole Province	2,696,774	6,349	425	4,191	643
1921	East Kootenay District	759,755	1,774	428	1,207	629
	Coast District	1,809,884	5,111	354	3,515	515
	Whole Province	2,569,639	6,885	373	4,722	544

While no figures can be given as to the actual cost of mining in the different fields, the *per capita* production of these fields is of interest, as having a bearing upon the working costs and as indicating the mining facilities existing and the improvement made in these conditions from year to year.

The *per capita* production varies from year to year and this variation is very often caused by different conditions which last for a longer or shorter time. For example, explosions, new developments, and the opening-up of new mines or closing of old ones are variable factors which affect the *per capita* production from year to year.

It will be seen from the foregoing table that the production *per capita* was high in 1912, but that the years 1913, 1914, 1915, and 1919 show a decrease, especially in the Coast District. This decreased effectiveness, during the last few years, of the labour employed is largely due to the extension of the workings of the mines, causing a greater length of haulage and greater extent of old workings to be taken care of, but some of the increased labour is undoubtedly on account of the greater number of men employed in safeguarding the mine and workmen. In the year 1917 it will be observed that while the *per capita* output of the Coast collieries also shows an increase, the Crowsnest District shows a very considerable decrease, which is caused by the fact that a large amount of the underground labour in these collieries is engaged in non-productive work, such as repairing the damage from the former explosion and in opening up a new system of mining which it is expected will tend to greater safety of employees and also of the property.

The *per capita* production for 1920 shows a substantial increase over that of 1919, particularly in the East Kootenay District, but it is to be regretted that in 1921 the *per capita* production has fallen back again.

The market of the East Kootenay field is provided primarily by the railways of the south-eastern part of the Province and of the northern parts of the adjoining States of Montana and Washington, approximately three-quarters of the coal, sold as such, being exported to those States, while the remainder went to supply the demands of the south-eastern part of the Province —its domestic needs, its railways, steamboats, mines, and smelters. The competition of fuel-oil, frequently referred to in the past, has diminished to some extent owing to increased prices of fuel-oil.

Coke, a product of the coal-mines, is sold in the same markets, with the difference that the local consumption—chiefly by the smelter at Trail—took about 70 per cent. of the product, while 30 per cent. was exported to the States mentioned.

As regards the marketing conditions in this field, the East Kootenay collieries are, however, brought into direct competition with the collieries of Alberta, just over the Provincial boundary-line, all these collieries being in the same coalfield, with practically the same grade of coal and working under similar conditions.

The Coast District may be subdivided into two fields—the Nicola-Princeton field and the Vancouver Island field—in which the markets differ considerably.

The new coalfield on the Telkwa river, in Omineca Division, this year produced 800 tons of coal which was sold locally. The production of this field has been included in the Coast District.

In the Nicola-Princeton field the consumption is chiefly by the local railways, while a small amount finds its way to Vancouver, even under the handicap of what seems to be an excessively high freight charge.

The Vancouver Island coal market is provided by the domestic and manufacturing requirements of the Coast cities, and of the ocean-going steamers calling at these ports.

The larger coasting steamers and railways, which in later years have all been using California crude oil as fuel, are to some extent reverting to the use of coal, which will mean an increased production from Coast collieries.

As in former years, the greater proportion of the coal production was made by three larger companies—the Crow's Nest Pass Coal Company, with two collieries in East Kootenay; and by the Western Fuel Corporation (formerly Canadian Western Fuel Company), of Nanaimo, and the Canadian Collieries (Dunsmuir), Limited, these last two operating on Vancouver island.

In addition to these large collieries, shipments have been made by the Corbin Coal and Coke Company, in East Kootenay; by the Middlesboro Collieries, Fleming Coal Company (operating Coal Hill Colliery), Coalmont Collieries, Limited, in the Nicola Valley, and the Chu Chua

Colliery, on the North Thompson river; by the Princton Coal and Land Company, of Princeton; by the Pacific Coast Coal Mines, Limited, East Wellington Coal Company (formerly British Columbia Coal Mining Company, which was the Vancouver Nanaimo Coal Company), and Nanoose Collieries, Limited, all operating on Vancouver island, near Nanaimo; and by Granby Colliery No. 1 at Cassidy. Telkwa Collieries Company, of Telkwa, did not produce in 1921, but a new colliery—the Aveling Colliery—mined and sold locally 800 tons,

The details of the shipments made by each of these companies will be found in reports of the Inspectors of the various districts.

During the year 1921 about 60.9 per cent. of the coal, sold as such by the collieries of the Province, was consumed in British Columbia; and the remainder, 39.1 per cent., was exported to the United States, including Alaska. Of the coke sold, about 70 per cent. was consumed in British Columbia, and the remaining 30 per cent. was exported to the United States.

COLLIERIES OF THE COAST DISTRICT.

The gross output of the Coast District collieries, including the Nicola valley and Telkwa, for the year 1921 was 1,809,884 tons (2,240 lb.) of coal actually mined, while some 24,330 tons was taken from "stock," making the actual consumption of coal 1,834,214 tons.

Of this gross consumption, 1,485,415 tons was sold as coal, 152,898 tons was consumed by the producing companies as fuel, and 190,148 tons was lost in washing. No coke was made this year by the Coast collieries, but coal mined at some of the Vancouver Island collieries was sold to the Granby Company's Anyox smelter, where it was subsequently made into coke in by-product ovens by the Smelting Company for its own use.

Formerly, in 1902, the Coast collieries exported to the United States 75 per cent. of the coal they mined, but later these conditions changed very much, as is shown by the following table:—

TABLE SHOWING PERCENTAGE SALES DISTRIBUTION OF COAST DISTRICT COAL.

Year.	Used in Canada.	Exported to U.S.	Exported to other Countries.
1910	71.30	24.50	....
1911	76.10	21.60	2.30
1912	71.25	21.25	7.47
1913	89.80	10.20	....
1914	77.30	22.70	....
1915	67.00	33.00	....
1916	63.00	37.00	....
1917	60.00	37.00	3.00
1918	66.00	30.00	4.00
1919	72.00	28.00	....
1820	79.00	20.00	1.00
1921	78.47	21.53	....

COLLIERIES OF THE EAST KOOTENAY DISTRICT.

The gross output of the collieries of the East Kootenay District for the year 1921 was 759,755 tons (2,240 lb.) of coal actually mined, while 13,859 tons was added to stock, making the actual consumption of coal 745,896 tons. Of this gross consumption of coal, 599,592 tons was sold as coal, 60,660 tons was consumed as fuel by the producing companies, while 85,644 tons was converted into coke, producing 59,434 tons of coke; 536 tons of coke was taken from stock, making the coke sales for the year 59,970 tons.

The East Kootenay collieries exported to the United States about 70 per cent. of the coal sold and about 35 per cent. of the coke.

The following table gives complete details of the coal and coke production of the Province for 1921, with the output figures for each colliery and district totals:—

Collieries of British Columbia—Production, 1921.

Mine.	Sold.			Total Sales.	Lost in Washing.	Used in making Coke.	Used under Co.'s Boilers, etc.	Total for Colliery Use.	Stocks.		Difference.		Output for Year 1921.
	In Canada.	In U.S.	Other Countries.						First of Year.	Last of Year.	Added to.	Taken from.	
Vancouver Island.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Canadian Collieries (D), Ltd—													
South Wellington	59,671	.....	.....	59,671	26,291	.....	4,633	30,924	.....	.....	.....	.....	90,595
Extension	89,439	57,204	.....	146,643	38,200	.....	18,472	56,672	1,458	3,342	1,884	.....	205,199
Cumberland	338,798	20,191	.....	358,989	67,856	.....	12,426	80,282	4,972	6,387	1,415	.....	440,686
Canadian Western Fuel Co.—													
No. 1, Nanaimo	193,554	72,968	.....	266,522	.....	.....	25,060	25,060	3,946	2,523	.....	1,423	290,159
Harewood	22,502	8,483	.....	30,985	.....	.....	11,493	11,493	7,170	8,434	1,264	.....	43,742
Reserve	101,351	38,208	.....	139,559	.....	.....	25,507	25,507	.....	.....	.....	.....	165,066
Wakesiah	33,414	12,596	.....	46,010	.....	.....	20,622	20,622	.....	435	435	.....	67,067
Old Wellington (King & Foster)	4,101	.....	.....	4,101	.....	.....	19	19	.....	100	100	.....	4,220
Nanoose-Wellington	38,977	5,902	.....	44,879	.....	.....	5,682	5,682	1,010	655	.....	355	50,206
Pacific Coast Coal Mines, Ltd.—													
Morden	14,205	800	.....	15,005	.....	.....	3,516	3,516	19,006	514	.....	18,492	29
Suquash	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Granby Cons. M. S. & P. Co.—													
Cassidy	125,677	75,161	.....	200,838	57,801	.....	14,383	72,184	5,437	1,377	.....	4,060	268,962
Totals, Vancouver Island	1,021,689	291,513	.....	1,313,202	190,148	.....	141,813	331,961	42,999	23,767	5,098	24,330	1,625,931
Nicola-Princeton District.													
Chu Chua Mine Syndicate	1,685	200	.....	1,885	.....	.....	275	275	.....	.....	.....	.....	2,160
Middlesboro Collieries, Ltd	4,733	.....	.....	64,733	.....	.....	2,689	2,689	134	504	370	.....	67,792
Fleming Coal Co., Ltd	34,330	.....	.....	34,330	.....	.....	1,561	1,561	100	100	.....	.....	35,891
Princeton Coal & Land Co	9,804	952	.....	10,756	.....	.....	2,925	2,925	33	318	285	.....	13,966
Coalmont Collieries, Ltd	32,264	27,445	.....	59,709	.....	.....	3,635	3,635	.....	.....	.....	.....	63,344
Totals, Nicola-Princeton District	142,816	28,597	.....	171,413	.....	.....	11,085	11,085	267	922	655	.....	183,153
Telkwa District.													
Telkwa Collieries, Ltd	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aveling Coal Property	800	.....	.....	800	.....	.....	.....	.....	.....	.....	.....	.....	800
Totals, Telkwa District	1,165,305	320,110	.....	1,485,415	190,148	.....	152,898	343,046	43,266	24,689	5,753	24,330	1,809,884
Crowsnest Pass District.													
Crow's Nest Pass Coal Co., Ltd—													
Coal Creek	49,535	320,410	.....	369,945	.....	.....	36,621	36,621	120	7,077	6,957	.....	413,523
Michel	35,932	133,889	.....	169,821	.....	85,644	19,383	105,027	...	3,453	3,453	.....	278,301
Corbin Coal & Coke Co., Ltd	18,794	41,032	.....	59,826	.....	.....	4,656	4,656	5,765	9,214	3,449	.....	67,931
Totals, Crowsnest Pass District	104,261	495,331	.....	599,592	.....	85,644	60,660	146,304	5,885	19,744	13,859	.....	759,755
Coal.													
Total for Province	1,269,566	815,441	.....	2,085,007	190,148	85,644	213,558	489,350	49,151	44,433	19,612	24,330	2,569,639
Coke.													
Total for Province (from Michel)	41,878	18,092	.....	59,970	.....	.....	.....	.....	580	44	.....	536	59,434

COLLIERIES OF BRITISH COLUMBIA—MEN EMPLOYED, 1921.

The following table shows the men employed at each colliery in the Province during 1921 and district totals:—

Mine.	White Men.																		Indians.			Japanese and Chinese.									Total Men employed.		
	Supervision and Clerical.			Miners.			Helpers.			Labourers.			Mechanics and Skilled.			Boys.			Labourers.			Miners.			Helpers.			Labourers.					
	U.	A.	T.	U.	A.	T.	U.	A.	T.	U.	A.	T.	U.	A.	T.	U.	A.	T.	U.	A.	T.	U.	A.	T.	U.	A.	T.	U.	A.	T.	U.	A.	T.
Vancouver Island.																																	
Canadian Collieries (D.), Ltd.—																																	
South Wellington	8	3	11	147	..	147	..	..	..	39	11	50	13	12	25	..	5	5	..	..	..	..	..	..	..	..	..	..	21	21	207	52	259
Extension	28	19	47	280	..	280	11	..	11	111	39	150	40	46	86	..	20	20	..	..	..	..	..	..	..	..	..	5	56	61	475	180	655
Cumberland	52	33	85	148	..	148	..	..	..	119	103	222	68	149	217	10	19	29	..	..	..	160	..	160	..	..	..	265	195	460	822	499	1,321
Canadian Western Fuel Co.—																																	
No. 1 Nanaimo	27	22	49	201	..	201	..	..	..	175	98	273	97	44	141	37	14	51	..	..	..	..	..	..	..	..	..	..	50	50	537	228	765
Harewood	8	4	12	75	..	75	..	..	..	33	27	60	10	16	26	5	14	19	..	..	..	..	..	..	..	..	..	..	18	18	131	79	210
Reserve	13	12	25	163	..	163	..	..	..	69	54	123	26	30	56	29	15	44	3	..	3	..	..	..	..	..	..	..	31	31	303	142	445
Wakesiah	8	4	12	74	..	74	..	..	..	29	24	53	22	19	41	11	7	18	..	..	..	..	..	..	..	..	..	..	10	10	144	64	208
Old Wellington	2	2	4	10	..	10	..	..	..	5	5	10	..	1	1	..	2	2	..	..	..	..	..	..	..	..	..	..	..	..	17	10	27
Pacific Coast Coal Mines—																																	
Morden	1	3	4	..	..	..	..	..	..	..	4	4	..	7	7	..	3	3	..	..	..	..	..	..	..	..	..	..	6	6	1	23	24
Suquash	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
Granby Cons. M. S. & P. Co.—																																	
Cassidy	16	16	32	222	..	222	..	..	..	..	31	31	106	72	178	.	13	13	..	..	..	..	..	..	..	..	..	..	..	..	344	132	476
Nanoose	11	5	16	91	..	91	29	..	29	52	14	66	6	18	24	8	..	8	..	..	..	..	..	..	..	..	..	..	14	14	197	51	248
Totals, Vancouver Island	175	124	299	1411	..	1411	40	..	40	632	410	1042	388	414	802	100	112	212	3	..	3	160	..	160	..	..	..	270	401	671	3179	1461	4,640
Nicola-Princeton District.																																	
Chu Chua Mine Syndicate	2	..	2	8	..	8	4	..	4	..	3	3	..	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	14	6	20
Middlesboro Collieries, Ltd.	12	5	17	54	..	54	33	..	33	44	18	62	..	18	18	..	8	8	..	..	..	..	..	..	..	..	..	..	..	..	143	49	192
Fleming Coal Co., Ltd.	5	2	7	38	..	38	5	..	5	5	16	21	5	7	12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	58	25	83
Princeton Coal & Land Co	4	2	6	14	..	14	..	..	..	18	8	26	..	7	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36	17	53
Coalmont Collieries, Ltd.	6	7	13	50	..	50	..	..	..	22	22	44	..	6	6	2	1	3	..	..	..	..	..	..	..	..	..	..	1	1	80	37	117
Totals, Nicola-Princeton District	29	16	45	164	..	164	42	..	42	89	67	156	5	40	45	2	9	11	..	..	..	..	..	..	..	..	..	..	2	2	331	134	465
Coast District.																																	
Telkwa River and Aveling Colliery	1	..	1	3	..	3	..	..	..	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
Totals, Coast District	205	140	345	1578	..	1578	82	..	82	722	478	1200	393	454	847	102	121	223	3	..	3	160	..	160	..	..	..	270	403	673	3515	1596	5,111
Crowsnest Pass District.																																	
Crow's Nest Pass Coal Co—																																	
Coal Creek	27	10	37	378	..	378	..	..	..	263	69	332	26	120	146	8	8	16	..	..	..	..	..	..	..	..	..	..	..	..	702	207	909
Michel	17	13	30	249	..	249	..	..	..	123	181	304	22	96	118	4	9	13	..	..	..	..	..	..	..	..	..	..	6	6	415	305	720
Corbin Coal & Coke Co	7	9	16	45	..	45	38	..	38	..	35	35	..	10	10	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	90	55	145
Totals, Crowsnest Pass District.	51	32	83	672	..	672	38	..	38	386	285	671	48	226	274	12	18	30	..	..	..	..	..	..	..	..	..	..	6	6	1207	567	1,774
Total for Province	256	172	428	2250	..	2250	120	..	120	1108	763	1871	441	680	1121	114	139	253	3	..	3	160	..	160	..	..	..	270	409	679	4722	2163	6,885

NOTE.—U=underground; A=above ground; T=total.

INSPECTION OF COAL-MINES, 1921.

The coal-producing areas of the Province are divided into the Coast District, which includes the Vancouver Island, the Nicola-Princeton, and the Telkwa coalfields, and the East Kootenay District.

COAST DISTRICT.

This district, comprising, as it does, the coalfields of Vancouver island and the Coast, as well as those of the Nicola and Similkameen valleys, has been subdivided, for inspection purposes, into three Inspection Districts.

Two of these Inspection Districts are on Vancouver island, with headquarters for both at Nanaimo, which permits of one of the Inspectors being constantly at headquarters while the other is making inspections; it also permits of the interchanging of inspection duties, so that each Inspector knows both districts.

The third district is the Nicola-Princeton Inspection District, with headquarters at Merritt. In June, 1920, John G. Biggs was appointed to the inspectorate of this district.

NANAIMO INSPECTION DISTRICT.

HENRY DEVLIN, INSPECTOR (OFFICE, NANAIMO).

The Canadian Collieries (Dunsmuir), Limited—Nos. 1, 2, and 3 mines, all worked from what is known as the No. 1 tunnel, and No. 5 mine at South Wellington.

Granby Colliery No. 1 at Cassidy—3 slopes.

Pacific Coast Coal Mines, Limited—The Morden mine.

Nanoose Collieries, Limited—No. 1 mine.

Western Fuel Corporation of Canada (formerly Canadian Western Fuel Company)—Harewood, Reserve, and Wakesiah.

East Wellington Coal Company.

Adit mine, Old Wellington Colliery.

COMOX INSPECTION DISTRICT.

(INCLUDING No. 1 AND PROTECTION SHAFTS, NANAIMO.)

THOMAS R. JACKSON, INSPECTOR (OFFICE, NANAIMO).

Western Fuel Corporation of Canada (formerly Canadian Western Fuel Company)—Protection and No. 1 mines.

The Canadian Collieries (Dunsmuir), Limited—Nos. 4 and 7 slopes and No. 5 shaft.

Pacific Coast Coal Mines, Limited—Suquash Colliery.

NORTHERN INSPECTION DISTRICT.

T. J. SHENTON, INSPECTOR (OFFICE, PRINCE RUPERT).

The Telkwa Collieries—Mine at Telkwa; and the Aveling Colliery, also on Telkwa river.

NICOLA-PRINCETON INSPECTION DISTRICT.

JOHN G. BIGGS, INSPECTOR (OFFICE, MERRITT).

The collieries operating during the year in this Inspection District, including the new mines that have been started, were:—

The Middlesboro Colliery of the Middlesboro Collieries, Limited, Merritt—Nos. 2, 3, 4, 5, 6, and 7 mines.

Fleming Coal Company.

Princeton Coal and Land Company's Princeton Colliery—No. 1 slope.

Coalmont Collieries.

Chu Chua Colliery.

EAST KOOTENAY DISTRICT.

The East Kootenay District is subdivided into two Inspection Districts—i.e., Northern Inspection District and Southern Inspection District. Both these districts are inspected by Robert Strachan as Senior Inspector, and John McDonald, Inspector with headquarters at the Mine-rescue Station at Fernie.

The collieries operating during the year were Coal Creek Collieries, Michel Colliery, and Corbin Colliery.

NANAIMO INSPECTION DISTRICT.

REPORT BY HENRY DEVLIN, INSPECTOR.

I have the honour to submit my annual report for the year ending December 31st, 1921, on the various coal-mines in my inspectorate, consisting of the Reserve, Harewood, and Wakesiah mines of the Western Fuel Corporation of Canada, Limited, Nanaimo (formerly Canadian Western Fuel Company); Nos. 1, 2, and 3 mines. Extension, and No. 5 mine, South Wellington, Wellington-Extension Colliery of the Canadian Collieries (Dunsmuir), Limited; Granby No. 1 Colliery of the Granby Consolidated Mining, Smelting, and Power Company, operating at Cassidy; Lantzville mine of the Nanoose-Wellington Collieries, operating at Nanoose; and the Old Wellington Colliery, Wellington, operated by King & Foster.

Western Fuel Corporation of Canada, Ltd.

(UNTIL JUNE 1ST, 1921, KNOWN AS THE CANADIAN WESTERN FUEL COMPANY.)

Head Office—Nanaimo, B.C.

Capital, $1,500,000.

Officers.	*Address.*
C. P. Heaton, President,	San Francisco, Cal.
G. W. Bowen, Vice-Chairman,	Nanaimo, B.C.
Mark Bate, Jr., Secretary-Treasurer,	Nanaimo, B.C.
John Hunt, General Superintendent,	Nanaimo, B.C.
Robert Laird, Mine Manager, No. 1 Mine,	Nanaimo, B.C.
Robert Henderson, Mine Manager, Reserve Mine,	Nanaimo, B.C.
Arthur Newbury, Harewood Mine,	Nanaimo, B.C.
William H. Moore, Wakesiah Mine,	Nanaimo, B.C.

The above company has operated the following collieries at Nanaimo during the past year, namely: No. 1 or Esplanade shaft, Nanaimo; Protection Island mine, Harewood, and Reserve.

The following returns show the combined output of all the company's mines for the past year:—

AGGREGATE RETURNS FROM WESTERN FUEL CORPORATION'S MINES FOR YEAR 1921.

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	350,821			
" export to United States	132,255			
" " other countries				
Total sales		483,076		
Used in making coke				
" under colliery boilers, etc.	82,682			
Total for colliery use		82,682		
Stocks on hand first of year	11,116			
" last of year	11,392			
Difference added to stock during year		276		
Output of colliery for year		566,034		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

Character of Labour.	Underground.		Above Ground.		Totals.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
Supervision and clerical assistance	56		42		98	
Whites—Miners	513				513	
Miners' helpers						
Labourers	306		203		509	
Mechanics and skilled labour	155		109		264	
Boys	82		50		132	
Japanese						
Chinese			109		109	
Indians	3				3	
Totals	1,115		513		1,628	

NANAIMO COLLIERY.

REPORT BY THOS. R. JACKSON, INSPECTOR.

Robert Laird, Manager.

No. 1 SHAFT, ESPLANADE.

Edward A. Courtenay, Overman; Robert Adams, William Johnson, William Halliday, John Hamilton, James McMeakin, James Dudley, Thomas Blenkhorne, George Gardine, Joseph Dykes, Joshua Norris, Thomas J. Woods, George Perry, John Shipley, Joe Dean, Andy Bennett, George Moore, Joe Dykes, and Neil McMillan, Firebosses.

This mine is situated at the south end of the Esplanade and adjacent to the bay shore-line. It is the oldest working-pit in Nanaimo district and has a large submarine area. The mine has three openings; two of them are in daily operation—namely, No. 1 and Protection shafts. The latter is situated on Protection island. The third opening is Newcastle shaft. A ladder extends from top to bottom of this shaft, so that one can enter or leave the mine. It is used only for inspection or necessity; it also forms the exit for the return air of Newcastle airway. The men working in Protection mine are conveyed by scow to and from there. No. 1 shaft provides passage-way for men employed in the South side of mine.

Electric lamps of the Edison type are now used. Douglas and Newcastle seams are worked. On the South side of mine the Douglas seam is worked exclusively; on the North side of mine coal is taken from both seams. In blasting nothing but permitted explosives are used and fired by cable and electric battery. Compressed air and electricity are used as motive power for haulage and drainage purposes. The three Prescott pumps are driven by steam; so are the endless haulage-rope and Diagonal slope engines; all of them situated at the shaft-bottom.

The North side haulage system consists of heavy steel rails and copper trolly-wire on the Main level, approximately 3 miles in length, extending from No. 1 shaft to the foot of Lamb's incline. Five motors are used; four constantly running; one acts as spare. Four of them are of the Edison type and one Westinghouse type—10-ton; all are spring-trolly connected. Horses and mules with drivers are used to take the cars to the faces and return with loaded cars to the main roads. Small and large winches are employed to attend to these cars and place them on the motor-road; the motors haul them to the shaft-bottom. A 12-ton Jeffrey motor has been added lately.

The South side haulage system consists of direct, endless rope, and main and tail rope. The workmen are supplied with cars in a similar manner to North side of mine, with this difference: instead of motors hauling the cars to the shaft-bottom, engines and ropes are used to do the work.

Development-work done in South Side, No. 1 Mine.

In the Main slope the two rock tunnels known as No. 8 South levels have been driven in a distance of 600 feet, but so far only small pockets of coal have been found. No. 5 North levels

off the Main slope have been driven in a distance of 700 feet, but only one small pocket of coal has been struck.

In No. 3 dips off No. 3 North level reopening-work has been carried on since May. Some good coal has been found in this section, but owing to heavy water and the difficult nature of the ground reopening-work has been slow. At a point 1,000 feet in No. 3 level active development-work has been carried on in a large area on the West side; the results have been very satisfactory in this section.

No. 4 South levels off the Diagonal slope have been continued to a point about 2,000 feet from the slope with good results. About the middle of the year the old workings known as Old Diagonal slope, which had been standing full of water since the explosion thirty-four years ago, was successfully tapped and all water drained off. Owing to the irregular nature of the ground six bore-holes from 75 to 100 feet deep were put in before water was struck. In No. 1 slope off the main and tail roadway a rock tunnel has been driven in a distance of 250 feet with good results.

Development-work done in North Side of No. 1 Mine.

During the year active operations have been carried out in the Douglas seam at Lamb's incline. At this point the coal is only 2 feet 9 inches thick, but is of good quality. The main air-line was extended along the Main level from No. 3 wall entrance to Lamb's incline and the Pick-quick machines introduced with good results. This section is worked in the long-wall system, mining being done in the bottom.

In the Diagonal slope, Protection, reopening-work has been carried on during the year. The water has been pumped out for a distance of 1,400 feet from the shaft. At a point down the slope (750 feet) a long-wall section has been opened up on the North side. This section had to be abandoned some time ago as the coal got too thin to work.

Reopening-work is also being carried on in Protection slope. The water has been pumped out to a point 1,300 feet from the shaft and some good coal is being recovered. No. 1 and No. 2 inclines have also been reopened. Pillar-work is carried on under restrictions.

North Side, No. 1 Shaft.

In the Douglas seam the work done is chiefly the extraction of pillars; the thickness of the seam varies from 3 to 7 feet. The Newcastle seam averages 3 feet in thickness and is worked by the long-wall system. Most of the output of coal is produced by mining-machines. The machines used are Pick-quick and Siskoll. Where the ground is faulty or the face is not extensive the mining is done by a Siskoll machine; where there is sufficient length of face to warrant it the Pick-quick machine is used. Both machines give good results. Compressed air is the motive power. Both machines undercut the coal to a depth of 6 feet, after which it is drilled and shot down. The brushing is taken out the floor to admit the car to the face; car carries about 16 cwt. of coal. Regulation size of place equals 12 yards, with roadway in centre. Loaders load out the coal into cars. Eight loaders are supervised by one shotlighter, or fireboss. Four loaders are supervised by one faceman, who is a certificated miner; a loader does not need a miner's certificate to load coal. Portions of the long-wall face are worked by diggers.

At present coal from the pillars in the Douglas seam is being taken from the following sections in the North side of mine: No. 1 wall, No. 2 wall, Protection slope, and Lamb's incline.

The ventilation of these districts is produced by a Guibal fan, 9 by 18 feet, rope-driven, at 70 revolutions a minute, against a 2-inch water-gauge. During my last inspection I measured 47,000 cubic feet of air a minute passing up Protection slope, divided into four splits.

Protection Level Section.—There was 8,000 cubic feet of air a minute passing for the use of thirty-six men and seven horses. Found no gas and section free from coal-dust. General conditions fairly good.

Lamb's Incline Section.—There was 6,000 cubic feet of air a minute passing for the use of twenty-seven men and seven mules. Found no gas and section free from coal-dust. General conditions good.

Nos. 3 and 4 Long-wall Sections.—There was 11,200 cubic feet of air a minute passing for the use of fifty-six men and eight mules. Found no gas and section free from coal-dust. General conditions good.

Nos. 1 and 2 Walls, Upper Seam Section.—No. 1 Upper: There was 6,000 cubic feet of air a minute passing for the use of thirty-five men and five mules. Found no gas and section fairly free from coal-dust. General conditions good. No. 2 Upper: There was 7,000 cubic feet of air a minute passing for the use of twenty-six men and four mules. Found no gas and section fairly free from coal-dust. General conditions good.

Measured 20,400 cubic feet of air a minute passing in Newcastle airway. Last test of Burrell gas-detector showed 0.2 per cent. methane. In 73,500 cubic feet of air a minute passing near upcast shaft, last test of Burrell gas-detector showed only 0.1 per cent. of methane.

South Side, No. 1 Mine.

Alex. Coombs, James S. Brown, William Neave, George B. Bradshaw, John Marrs, John Weeks, John Sutherland, Matthew Broderick, John Devlin, and John McArthur, Firebosses.

The workings are all in the Douglas seam and almost consist of extractions of pillars. The seam varies much in thickness and inclination; some of it 2 feet and other parts as high as 15 feet; inclination running from horizontal to 10°.

The ventilation is produced by a 72- by 90-inch double-inlet Sirocco fan, rope-driven, ratio 3½ to 1, capable of producing 195,000 cubic feet of air a minute at a 4-inch water-gauge, driven by an engine of 350 horse-power. Another fan capable of producing the necessary ventilation of the mine stands ready to substitute should necessity require.

During my last inspection I measured 43,200 cubic feet of air a minute passing, divided into two splits.

No. 4 South Level Section.—There was 11,160 cubic feet of air a minute passing for the use of thirty-five men and seven mules. Got a little gas in Lewis place. Found section fairly free from coal-dust and general conditions good.

Inside Section.—There was 15,000 cubic feet of air a minute passing for the use of forty-eight men and nine horses. Found no gas and section of mine fairly free from coal-dust. General conditions of mine fairly good.

No. 7 Section.—There was 11,200 cubic feet of air a minute passing for the use of seven men and one horse. Found no gas and section free from coal-dust. General conditions good.

Burrell gas-detector showed 0.1 per cent. of methane in 22,300 cubic feet of air a minute passing in South side return at No. 3 door. Got 69,000 cubic feet of air a minute passing into upcast shaft from South side main airway; last test showed no methane.

The following are the official returns for the Nanaimo Colliery for the year ending December 31st, 1921:—

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	193,554			
" export to United States	72,968			
" " other countries				
Total sales		266,522		
Used in making coke				
Used under colliery boilers, etc.	25,060			
Total for colliery use		25,060		
		291,582		
Stocks on hand first of year	3,946			
" last of year	2,523			
Difference taken from stock during year		1,423		
Output of colliery for year		290,159		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	27		22		49	
Whites—Miners	201	8.37			201	
Miners' helpers						
Labourers	175	4.81-5.35	98	4.88-5.33	273	
Mechanics and skilled labour	97	5.35-6.02	44	5.42-6.68	141	
Boys	37	2.58-4.81	14	1.74-3.89	51	
Japanese						
Chinese			50	2.34-3.11	50	
Indians						
Total	537		228		765	

REPORT BY HENRY DEVLIN, INSPECTOR.

RESERVE MINE.

Robert Henderson, Manager; Frances John, Overman; James McGrath, Shiftboss; Benjamin Cheetham, Albert Manifold, Joseph Thompson, James West, Fred. Bell, George Frater, James E. Knowles, Richard Rallison, Ernest Kelly, Fred. Hilley, Henry A. Meikle, John McCourt, and Jacob Stobbart, Firebosses.

This mine is situated in what is known as the Cranberry district, about 5 miles south of Nanaimo. The coal is reached by two shafts at a depth of 955 feet, from which a rock tunnel 8 by 10 feet in area is driven across the measures on a 1-per-cent. grade to the rise. The tunnel tapped the seam at a distance of 180 feet. The shaft-bottom is laid out in a most up-to-date method for handling a large output of coal. All the tracks are laid with 30-lb. rails and on a grade of 1 per cent. up from the shaft. All the main tunnels leading to this shaft are timbered with 12- by 12-inch timbers.

The seam worked in this mine is the Douglas, the thickness of which varies from 1 to 20 feet. The pitch varies from 10° to 50° and is generally dipping north or north-east. The coal is mostly of a soft nature, with a fairly strong roof.

The coal in No. 1 West heading varies in thickness from 3 to 20 feet, and is of a very good quality and fairly hard. There is a diamond-drill hole down about 1,000 feet in advance of the heading in about 10 feet of coal.

A rock tunnel 8 by 12 feet has been driven on a 1-per-cent. grade back to No. 1 hoisting-shaft and connects with the shaft 110 feet above the present shaft-bottom. This will simplify the haulage and practically make a new mine of it.

The output of this mine has been considerably increased during the year and is the second largest producer of the Western Fuel Corporation.

The ventilation of the mine is produced by a pair of 90-inch Sirocco fans, connected to a 20 by 30 engine, rope-driven. On the engine is a drive-wheel 17 feet in diameter and on the fan-shaft a drive-wheel 5 feet in diameter. These fans, running with an engine-speed of 16 revolutions, are capable of producing 140,000 cubic feet of air a minute, against a 3-inch water-gauge.

The air is carried along the Main levels on both sides of the mine and up the Main headings, and maintained by permanent stoppings of 12- by 12-inch timbers bedded in cement between the intake and return airways; these stoppings are being kept well up to the face of the workings. The Main haulage-roads and working-places are naturally damp and very little explosive gas is found in the workings.

The mechanical haulage is all carried on by means of compressed-air hoists, of which there are twelve in use. The pillars have all been extracted from the East and West levels, but

prospecting is being carried on by means of two pairs of headings about 2,500 feet apart. These headings are being driven up the full pitch of the seam and are in coal of good quality.

The Edison electric head-lamps have been installed in this mine during the year; they are finding much favour with the workmen and are proving very efficient.

The surface plant consists of four return-tubular boilers, 16 by 24 each, 208 horse-power, with a steam-pressure of 125 lb.; one hoisting-engine, 30 by 60 inches, built by Barclay & Sons, Kilmarnock, Scotland, drum 12 feet in diameter, with a 1½-inch galvanized steel-wire rope; one hoisting-engine, 24 by 48 inches, built by Barclay & Sons, Kilmarnock, drum 12 feet in diameter, with a 1½-inch galvanized steel-wire rope; each of the above engines is fitted with an automatic overwinding device. One cross-compound Canadian Rand compressor with a capacity of 25,000 cubic feet of air a minute at 90 revolutions. One Ingersoll-Rand compressor has been installed during the year with a capacity of 22,000 cubic feet of air a minute at 120 revolutions. One electric engine which supplies the light above and below ground, single engine, 14 by 14 inches, built by Robb-Armstrong, with 2 d.c. generators, 250 volts, 120 amperes.

Screens: One 3-car self-dumping tipple with shakers consisting of two screens, 1½ inches and ¾ inch respectively, picking-table, and nut and cross conveyors driven by a small compound engine.

On my last inspection of this mine I measured 50,000 cubic feet of air a minute passing into the mine, divided into two splits.

In the East side split there was 14,880 cubic feet of air a minute passing for the use of forty-eight men and six horses.

In the West side split there was 18,000 cubic feet of air a minute passing for the use of sixty-eight men and six horses.

No explosive gas found. Timbering and roadways were in good condition and the mine free from coal-dust.

Tests made with the Burrell gas-detector were as follows: East side split showing 0.3 per cent. methane in 16,000 cubic feet of air a minute; West side split showing 0.4 per cent. methane in 20,000 cubic feet of air a minute; Main return showing 0.5 per cent. methane in 56,000 cubic feet of air a minute.

The following are the official returns from the Reserve Colliery for the year ending December 31st, 1921:—

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	101,351			
" export to United States	38,208			
" " other countries				
Total sales		139,559		
Used in making coke				
Used under colliery boilers, etc.	25,507			
Total for colliery use		25,507		
Stocks on hand first of year				
" last of year				
Difference { added to / taken from } stock during year				
Output of colliery for year		165,066		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	13		12		25	
Whites—Miners	163	7.63			163	
Miners' helpers						
Labourers	69	4.81-5.35	54	4.88-5.33	123	
Mechanics and skilled labour	26	5.35-6.02	30	5.42-6.68	56	
Boys	29	2.58-4.81	15	1.74-3.89	44	
Japanese						
Chinese			31	2.34-2.99	31	
Indians	3	4.81-4.98			3	
Totals	303		142		445	

WAKESIAH MINE.

William H. Moore, Manager; Thomas Jordan, Overman; Charles F. Webber, Shiftboss; John A. Challinor, Alfred Odgers, Isaac Nash, George W. Nash, George Grey, and Samuel K. Mottishaw, Firebosses.

This mine is situated on the Western Fuel Corporation's farm, about 2 miles from Nanaimo, and is connected by railway with the Harewood branch line. Two shafts were sunk to a depth of 320 feet to the Wellington seam and a pair of levels driven in a south-westerly direction for about 1,400 feet, at which the coal-measures are tilted and thrown up at varying angles and finally cut off by what is known locally as the "Little mountain."

About 700 feet from No. 2 shaft a pair of slopes have been driven, which have cut the large fault to the south-east at about 1,400 feet. New slopes are being driven to further exploit the measures to the south and east.

The pair of headings driven towards the Old Jingle Pot mine, after encountering many disturbances, at last got into an area of good coal and is now being exploited. The coal varies a great deal in thickness—namely, from 2 to 20 feet. The floor is uniformly hard, but there is a very poor roof (except in a few small areas), which requires careful timbering. The coal itself is a very high quality, but is somewhat friable.

The contour of the field is very irregular, which makes haulage both difficult and costly. Haulage is carried on by means of five winches, driven by compressed air, supplemented by horses.

The output is now from 350 to 400 tons a day. A considerable amount of water has been encountered on the line of fault and is handled by seven pumps, six of which are run by compressed air, and the large Cameron pump at the shaft-bottom which is run by steam.

Ventilation is produced by means of a single-inlet Murphy fan, which is now driven direct, but can be changed to belt-driven in a few minutes, an auxiliary engine being kept ready for the purpose.

Ths mine is damp and free from coal-dust. Up to the present time safety-lamps of the Wolf type have been in use, but arrangements are now being made for the installation of the Edison electric head-lamps.

Another and larger compressor than the two in use has been secured, and will probably be installed early in the coming year, to provide power for further developments, larger pipe-lines being already installed for that purpose.

A new feed-water heater has been installed during the year. Coal is being hoisted from No. 2 shaft by a 14- by 16-inch first-motion engine supplied with steam at 120 lb. pressure from two boilers of 160 and 140 horse-power respectively, a $^{6}/_{19}$ 1⅛-inch plough-steel wire rope being used in hoisting. The switching-yards have been extended during the year and a new shaker-engine installed.

The general development of the mine has been retarded by the slackness of the coal trade, due largely to the increased use of fuel-oil.

As a result of the increased vigilance of the officials in the interests of "safety first," there has been no very serious accidents reported during the year, notwithstanding the frail roof and other adverse conditions.

On my last inspection of this mine I measured 26,000 cubic feet of air a minute passing into the mine, divided into two splits.

In the East side split there was 11,450 cubic feet of air a minute passing for the use of thirty-five men and three horses.

In the West side split there was 14,500 cubic feet of air a minute passing for the use of forty-eight men and seven horses.

I found a small quantity of explosive gas in face of the second place off Barton's dip, East side. Timbering and roadways were in good condition and the mine free from coal-dust.

Tests with the Burrell gas-detector were as follows: East side split showing 0.3 per cent. methane in 12,300 cubic feet of air a minute; West side split showing 0.4 per cent. methane in 16,000 cubic feet of air a minute; Main return showing 0.5 per cent. methane in 28,300 cubic feet of air a minute.

The following are the official returns from the Wakesiah Colliery for the year ending December 31st, 1921:—

Sales and Output for Year.	Coal.		Coke.	
(Tons of 2,240 lb.	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	33,414			
" export to United States	12,596			
" " other countries				
Total sales		46,010		
Used in making coke				
Used under colliery boilers, etc.	20,622			
Total for colliery use		20,622		
		66,632		
Stocks on hand first of year				
" last of year	435			
Difference added to stock during year		435		
Output of colliery for year		67,067		

Number of Hands employed, Daily Wages paid, etc.

Character of Labour.	Underground.		Above Ground.		Totals.	
	No. employd.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	8		4		12	
Whites—Miners	74	8.79			74	
Miners' helpers						
Labourers	29	4.81 - 5.35	24	4.88 - 5.33	53	
Mechanics & skilled labour.	22	5.35 - 6.02	19	5.42 - 6.68	41	
Boys	11	2.58 - 4.81	7	1.34 - 3.89	18	
Japanese						
Chinese			10	2.34 - 2.99	10	
Indians						
Totals	144		64		208	

HAREWOOD MINE.

Arthur Newbury, Manager; John White, Overman.

In this mine the most important development-work during the year was in the South-east levels, which were driven a distance of 1,000 feet, mostly in rock; also the south-west heading was completed for ventilation purposes, it being driven through to the surface. A new slope was driven down from the face of the level a distance of 100 feet, but was abandoned on account of water.

This mine was only operated about five months during the year owing to slackness in the coal trade, and most of the output came from pillar-extraction.

(For description of power-house equipment and plant at the Harewood mine, *see* Minister of Mines' Report for 1919.)

On my last inspection of this mine I measured 10,800 cubic feet of air a minute passing into the mine for the use of eight men and two horses.

No explosive gas found. Timbering and roadways were in good order and the mine entirely free from coal-dust.

Test made with the Burrell gas-detector showed no methane present in the mine-air.

This mine was partly closed down at the time of my visit, only two developing-places being worked, and on December 19th the mine was closed down indefinitely.

The following are the official returns from the Harewood Colliery for the year ending December 31st, 1921:—

Sales and Output for Year.	Coal.		Coal.	
Tons of 2,240 lb.	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	22,502			
" export to United States	8,483			
" " other countries				
Total sales		30,985		
Used in making coke				
Used under colliery boilers, etc.	11,493			
Total for colliery use		11,493		
		42,478		
Stocks on hand first of year	7,170			
" last of year	8,434			
Difference added to stock during year		1,264		
Output of colliery for year		43,742		

Number of Hands employed, Daily Wages paid, etc.

Character of Labour.	Underground.		Above Ground.		Totals.	
	No. employed.	Average Daily Wage.	No. employd.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	8		4		12	
Whites—Miners	75	9.06			75	
Miners' helpers						
Labourers	33	4.81 - 5.35	27	4.88 - 5.33	60	
Mechanics and skilled labour	10	5.35 - 6.02	16	5.42 - 6.68	26	
Boys	5	2.58 - 4.81	14	1.74 - 3.89	19	
Japanese						
Chinese			18	2.34 - 2.99	18	
Indians						
Totals	131		79		210	

The Nanoose-Wellington Collieries Co., Ltd.

Head Office—Wellington, B.C.

Officers.	*Address.*
Grant Waldref, President,	292 Walnut Street, St. Paul, Minn.
J. A. Coleman, Managing Director,	Seattle, Wash.
Russel H. Phinney, Secretary,	St. Paul, Minn.
M. N. Olsen, Treasurer,	Wellington, B.C.
James W. Jemson, Superintendent,	Wellington, B.C.

Value of plant, $200,000.

LANTZVILLE MINE.

James W. Jemson, Manager; Joseph Neen, Overman; John Michek, Charles Simister, Jonathan Pearson, Edward Bridge, James Handlen, Henry Carroll, George Oswald, and Hugh M. Davidson, Firebosses.

This mine is situated at Nanoose Bay, about 9½ miles north of Nanaimo, and is worked in what is known as the Old Wellington seam. The seam is reached by a shaft 8 by 16 at a depth of 133 feet. The seam varies in thickness, but is of excellent quality. There are several layers of rock between the benches of coal and overlaid by cap-rock, which also varies in thickness.

The roof is hard and dependable; therefore the prop and cap-piece system of timbering is generaly sufficient for all purposes. The pillar-and-stall system is general throughout the mine, though where the seam has become thin long-wall has been resorted to.

The larger portion of the output comes from No. 2 slope and is hauled by a compressed-air hoist, but preparations are being made to electrically operate this hoist to enable them to haul a larger trip, and thus be able to handle a larger output. A good deal of grading has been done on this slope during the last few months, which gives a more uniform grade and tends for safer haulage. Considerable improvements have been made at the top and bottom landings of No. 2 slope. At the bottom a very good track arrangement simplifies and expedites the handling of trips. At the top of the slope the track arrangement is very good and works well, which saves the services of two men and two horses in the handling of the trips.

Development-work in No. 3 slope is steadily progressing and will no doubt shortly be in the same field of coal now being mined in No. 2 slope. Therefore, having coal in two slopes, a larger increase in output is expected in the near future.

The Main level is being improved and relaid with 30-lb. steel rails. A series of brick stoppings has been built along the Main airway and partly down No. 2 slope, thereby saving considerable leakage of air. The present mine-fan is about at its limit, and steps are being taken to replace it by one of larger capacity, to be electrically driven and of the most improved type.

A small generator has been installed in the power-house to supply lights to the new houses. The houses received a coat of paint in the fall, which has greatly improved their appearance. They are exceptionally good and are equipped with every modern convenience—hot and cold water, bath, and electric light. The village overlooks the bay and a more pleasant location would be hard to find.

A "jitney" service enables the residents to go to Nanaimo at any time and the Esquimalt & Nanaimo Railway is only about a mile distant. A new school-house is to be built in the near future on a site donated by the company. The building now being used as a school-house will be used as a social hall and class-room.

During the winter months a very successful first-aid class was held and carried to a successful completion, as eighteen of the students succeeded in obtaining certificates and medallions.

This mine is fully equipped with the Wheat electric head-lamp, which is giving general satisfaction, only firebosses using the Wolf-type safety-lamp for testing purposes.

(For description of power-house equipment and plant at Lantzville mine *see* Minister of Mines' Report for 1920.)

On my last inspection of Lantzville mine in December I measured 27,000 cubic feet of air a minute passing into the mine, divided into two splits.

In No. 1 split there was 10,000 cubic feet of air a minute passing for the use of twenty-seven men and six horses.

In No. 2 split there was 14,000 cubic feet of air a minute passing for the use of fifty-five men and four horses.

I found a small quantity of explosive gas issuing from a feeder in the floor at the face of No. 2 slope. Timbering and roadways were in good condition and the mine free from coal-dust.

Tests made with the Burrell gas-detector showed no methane present in the mine-air.

The following are the official returns from the Lantzville Colliery for the year ending December 31st, 1921:—

Sales and Output.	Coal.		Coke.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	38,977			
" export to United States	5,902			
" " other countries				
Total sales		44,879		
Used in making coke				
Used under colliery boilers, etc.				
Total for colliery use		5,682		
		50,561		
Stocks on hand first of year	1,010			
" last of year	655			
Difference taken from stock during year		355		
Output of colliery for year		50,206		

Number of Hands employed, Daily Wages paid, etc.

Character of Labour.	Underground.		Above Ground.		Total.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		$
Supervision and clerical assistance	11	6.52	5	7.83	16	6.91
Whites—Miners	91	6.10			91	6.10
Miners' helpers	29	5.28			29	5.28
Labourers	52	4.97	14	4.49	66	4.79
Mechanics and skilled labour	6	5.17	18	5.18	24	5.18
Boys	8	4.13			8	4.13
Japanese			14	3.13	14	3.13
Chinese						
Indians						
Totals	197		51		248	

Name of seams or pits—Old Wellington. Coal extracted from one seam only.

Description of seams, tunnels, levels, shafts, etc., and number of same—Coal is hoisted from shaft, which acts as intake airway. Tunnel acts as fan-drift and return airway, which is also exit for men and horses. Air-current is divided into two splits.

Description and length of tramway, plant, etc.—Practically 7,000 feet of tramways. Three boilers, total horse-power 360; two compressors, total capacity 950 cubic feet a minute.

First-motion hoisting-engine. Electric power is generated by 150-kw. generator, used for all surface work, washing, screening, and operating 75-horse-power electric winch in mine. One Sturtevant fan, electrically operated, capacity 30,000 cubic feet a minute.

Granby Consolidated Mining, Smelting, and Power Co. Colliery at Cassidy.

Officers.	*Address.*
W. L. Nichols, President,	52 Broadway, New York.
J. T. Crabbs, Vice-President,	52 Broadway, New York.
Edward Everett, Secretary,	52 Wall Street, New York.
Valentine Quinn, Treasurer,	813 Birks Blds., Vancouver.
H. S. Munroe, General Manager,	Anyox, B.C.
C. M. Campbell, Superintendent,	Cassidy, B.C.

GRANBY No. 1 COLLIERY.

Charles M. Campbell, Resident Manager; James Touhey, Mine Manager; William P. Touhey, Overman; Jonathan Henney, Shiftboss; John Wright, Ernest H. Devlin, Robert Houston, Thomas Bullen, Joseph Lavin, Alex. McLachlan, Henry Mitchell, John Newman, John Bennett, Matthew Meek, Albert Radford, and Owen Dabb, Firebosses.

This mine is situated at Cassidy and is opened up in the Douglas seam, which averages 10 feet in thickness. It was acquired mainly to secure a supply of coke for the company's smelter at Anyox.

Operations at this mine were continuous throughout the year. This was due largely to the fact that steady operation of the Anyox smelter called for a regular supply of slack coal.

Improvements underground were confined chiefly to the excavation of a large sump and the installation of a Gould's triplex pump with a capacity of 300 gallons a minute when working at a head of 700 feet a minute. Air-driven pumps on lower levels pump into this central sump.

On the surface the chief improvements were in the washery. A 75-foot Dorr thickener was added to the equipment and a Smith-Vaile triplex pump with a capacity of 450 gallons a minute was installed in order to pump the clarified water from the thickener to the washery. The power-plant capacity was increased by the addition of a 360-horse-power Babcock & Wilcox boiler. An electric locomotive and six automatic side-dumping cars of the Granby type have been added to the surface equipment. This installation will handle all waste rock from the mine.

(For description of townsite, rooming-house, change-house, mine buildings, tipple and washery, and power-house equipment *see* Minister of Mines' Report for 1919.)

Underground development has been pushed ahead during the year, slopes have been driven off Nos. 5 North and South levels a distance of 800 feet, making the distance from the surface some 4,000 feet; Nos. 6 North and South levels have been turned off these slopes and are in good coal, but very friable.

The seam continues irregular in thickness, subject to rolls in the roof and floor, and a number of silted areas have been encountered.

A large number of outbursts of gas and coal have occurred in this mine during the year. The first one occurred on January 14th, 1921.

The coal displaced sometimes reaches as high as from 150 to 400 tons. The displacement of coal is not violent as a rule, simply moving the face forward 10 or 15 feet. Timbers are sometimes displaced owing to the outbursts coming more from the rib than the face and pushing the legs from under the stringers.

These outbursts give quite a little warning in the shape of cracking and "bumping" at the face before an outburst takes place. By a system of signalling and telephones in each district, and the firebosses having a small compact district due to the panel system of working, all workmen on the return side of a blow-out are warned and retire to fresh air, which is made easy by the number of splits in the air-current.

Sometimes the coal is powdered from the outburst, and as it has not been violently displaced, it would seem that the coal is already powdered before the outburst occurs; i.e., that it is in a

finely powdered state in the pocket in which the gas has been occluded. An analysis of this dust collected after an outburst showed an ash content of 40 per cent. All these outbursts have occurred below the Nos. 4 North and South levels.

All blasting is prohibited below Nos. 4 North and South levels, except where brushing either in the roof or floor is to be done, and then only under certain conditions.

There is a great deal of credit due the mine manager and his official staff for the way they have handled the large number of outbursts in this mine during the year, without any accidents occurring.

In my last inspection of Granby No. 1 mine I measured 120,000 cubic feet of air a minute passing into the mine, divided into four splits.

In No. 1 North split there was 10,000 cubic feet of air a minute passing for the use of ten men.

In No. 2 North split there was 24,000 cubic feet of air a minute passing for the use of thirty men.

In No. 3 North split there was 26,000 cubic feet of air a minute passing for the use of thirty-seven men.

In the South side split there was 22,680 cubic feet of air a minute passing for the use of thirty men.

I found a small quantity of explosive gas in the following places: In No. 1 room off No. 2 incline, and in a crosscut off No. 3 incline, No. 4 North level, and a ⅛-inch gas-cap travelling in the air on the return side of No. 1 slope, No. 5 North level; this gas cap was due to a slight outburst of gas in this section on the day previous; also a little in Nos. 5 and 6 rooms off No. 1 slope, No. 5 South level.

Tests made with the Burrell gas-detector in this mine were as follows: Return from No. 1 North split showing 0.4 per cent. methane in 10,000 cubic feet of air a minute; return from No. 2 North split showing 0.6 per cent. methane in 26,000 cubic feet of air a minute; return from No. 3 North split showing 1 per cent. methane in 30,000 cubic feet of air a minute; South side split showing 0.7 per cent. methane in 30,000 cubic feet of air a minute; Main return showing 0.9 per cent. methane in 140,000 cubic feet of air a minute.

I regret to say that there were three fatal accidents in Granby No. 1 mine during the year—two due to falls of rock in the face and one on the haulage.

The following are the official returns for the Granby Colliery for the year ending December 31st, 1921:—

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	125,677			
" export to United States	75,161			
" " other countries				
Total sales		200,838		
Used in making coke				
Lost in washing	57,801			
Used under colliery boilers, etc.	14,383			
Total for colliery use		72,184		
		273,022		
Stocks on hand first of year	5,437			
" last of year	1,377			
Difference taken from stock during year		4,060		
Output of colliery for year		268,962		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		$
Supervision and clerical assistance	16	6.75	16	6.33	32	6.54
Whites—Miners	222	8.04	.....	.....	222	8.04
Miners' helpers	.....	.....	.....	.....	.....	.....
Labourers	.....	.....	31	4.65	31	4.65
Mechanics and skilled labour	106	5.47	72	5.41	178	5.44
Boys	.....	.....	13	3.03	13	3.03
Japanese	.....	.....	.....	.....	.....	.....
Chinese	.....	.....	.....	.....	.....	.....
Indians	.....	.....	.....	.....	.....	.....
Totals	344	7.19	132	5.11	476	6.61

Name of seams of pits—Granby Colliery No. 1, Douglas seam.

Description of seams, tunnels, levels, shafts, etc., and number of same—Douglas seam. Average dip, 20°. Seam irregular in thickness, varying from 0 to 25 feet sometimes in remarkably short distances. Seam subject to rolls, pinched and silted areas. The mine is being operated with the idea of extracting largest possible percentage of coal at minimum cost. Large and substantial pillars have been left along all main haulage-roads and permanent airways. The Main slope has been driven approximately 4,500 feet from the surface, is exceptionally well timbered, and has been driven wide enough for two tracks. Six levels have been turned to north and south off Main slope. Practically all coal extracted to date has come from development places.

Description and length of tramway, plant, etc.—Plant modern in every way. Sirocco fan, capacity 150,000 cubic feet a minute; Vulcan hoist, 18 by 36 inches, double-drum second-motion. Tipple equipped with rotary dump, Marcus screen, loading-booms, railway-cars handled with Fairmont car-retarders; washery equipped with 2-compartment jigs, capacity 80 tons an hour, seven Deister-Overstrom tables, and 75-foot Dorr thickener. Edison storage-battery electric locomotives used for underground haulage in part of mine. Boiler plant equipped with two Badenhausen boilers fired by type E mechanical stokers and one B. & W. boiler fired with Sanford-Riley mechanical stokers. Ashes flumed to dump.

King & Foster.

Head Office—Herald Building, Nanaimo, B.C.

Officers.	*Address.*
A. G. King, Jr., Partner.	Box 655, Nanaimo, B.C.
E. R. Foster, Partner.	
A. G. King, General Manager.	

THE ADIT MINE (OLD WELLINGTON COLLIERY).

These mines are operated by King & Foster, No. 1 mine being the Old Adit mine formerly operated by R. Dunsmuir & Sons and is the original Wellington seam. During the past year the coal mined in this area was taken from the outcrop lying to the west and south-east of the old adit level, and also from a few pillars. About 600 feet to the north of the portal of the old level an open-cut in soft coal has been made, but up to the present time the coal has not been of sufficient hardness to ship.

No. 2 mine, the entrance of which lies about 2,000 feet to the north of the No. 1 mine, was opened up in the early part of the year; it is in the upper seam and lies approximately 40 feet

above the Wellington seam. This mine was first opened by the late R. Dunsmuir about the year 1868, but was not worked extensively as the coal is thin; the original slope and Main level were driven very narrow, being only about 5 feet wide; the old wooden rails were found in places. At the present time the mine is worked on the long-wall system; owing to the variable thickness of the seam and the amount of dirt that has to be handled, considerable difficulty is met with in working the seam.

During the year a pit-head has been built at No. 2 mine; also a spur track on the Esquimalt & Nanaimo Railway, 1 mile from No. 2 mine, has been constructed, with a pair of loading-chutes and the necessary approach.

I inspected all accessible parts of Nos. 1 and 2 mines of this colliery in December and found timbering and roadways in good condition. No explosive gas found in the mines, which were entirely free from coal-dust.

Henry Shepherd is fireboss in No. 1 mine, where there are four men employed, and Clifford Dickenson is overman in No. 2 mine, where there are eight men employed.

The following returns show the output of the firm's mine for the year 1921:—

Sales and Output for Year. (Tons of 2,240 lb.)	Coal. Tons.	Tons.
Sold for consumption in Canada	4,101	
" export to United States		
" " other countries		
Total sales		4,101
Used in making coke		
" under colliery boilers, etc.	19	
Total for colliery use		19
Stocks on hand first of year		
" last of year	100	
Difference added to stock during year		100
Output of colliery for year		4,220

Number of Hands employed, Daily Wages paid, etc.

Character of Labour.	Underground. No. employed.	Underground. Average Daily Wage.	Above Ground. No. employed.	Above Ground. Average Daily Wage.	Totals. No. employed.	Totals. Average Daily Wage.
		$		$		$
Supervision and clerical assistance	2	4.92¾+	2	4.92¾+	4	4.92¾+
Whites—Miners	10	4.25¼+			10	4.25¼+
Miners' helpers						
Labourers	5	3.71¼+	5	3.25+	10	3.25
Mechanics and skilled labour			1	4.25¼+	1	4.25¼+
Boys			2	1.75+	2	1.75
Japanese						
Chinese						
Indians						
Totals	17		10		27	

In the above average daily wage, plus (+) means high cost of living bonus in addition to rates stated.

Name of seams or pits—No. 1 or Old Adit, Wellington seam; No. 2 or Upper seam.

Description of seams, tunnels, levels, shafts, etc., and number of same—No. 1 Adit level on Wellington seam; No. 2 slope on the Upper seam.

Description and length of tramway, plant, etc.—Pit-head, with rock tipple and bar-screen for coal; one 5- by 7-inch hoist; one vertical boiler; one induction-fan with 5-horse-power gasolene-engine; one loading-platform with two chutes and spur track on the Esquimalt & Nanaimo Railway.

East Wellington Coal Company.

Officers.	*Address.*
H. W. Maynard, President,	Vancouver, B.C.
R. S. Jones, Treasurer,	Minneapolis, Minn.
J. S. Grant, Superintendent,	Nanaimo, B.C.

EAST WELLINGTON COLLIERY.

The East Wellington Coal Company did not operate during the year 1921.

Pacific Coast Coal Mines, Limited.

Head Office—Victoria, B.C.

Capital, $3,000,000.

Officers.	*Address.*
James Carruthers, President,	Montreal, Que.
John H. Paine, Vice-President and Managing Director,	Victoria, B.C.
D. D. Muir, Secretary-Treasurer,	Victoria, B.C.
George Wilkinson, General Superintendent,	Victoria, B.C.
William Roper, Mine Manager,	

This company did not do any work underground at either its Morden or its Suquash Collieries, employing only one man at each, practically as watchmen.

The company did, however, recover some 17,807 tons of coal from old dump by washing.

The following returns show the combined output of the company's mines for the year 1921:—

AGGREGATE RETURNS FROM MINES OF PACIFIC COAST COAL MINES, LIMITED, FOR 1921.

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	14,205			
" export to United States	800			
" " other countries				
Total sales		15,005		
Used in making coke				
Used under colliery boilers, etc	3,516			
Total for colliery use		3,516		
		18,521		
Reclaimed from dump 17,807				
Stocks on hand first of year 1,199	19,006			
" last of year	514			
Difference taken from stock during year		18,492		
Output of colliery for year		29		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	1	8.00	3	6.00-10.00	4	.....
Whites—Miners	.....	.....	.....	.....	.....	.....
Miners' helpers	.....	.....	.....	.....	.....	.....
Labourers	.....	.....	4	5.85-5.50	4	.....
Mechanics and skilled labour	.....	.....	7	5.51-6.11	7	.....
Boys	.....	.....	3	3.45-4.75	3	.....
Japanese	.....	.....	.....	.....	.....	.....
Chinese	.....	.....	6	2.98-3.38	6	.....
Indians	.....	.....	.....	.....	.....	.....
Totals	1	.....	23	.....	24	.....

Dredging operation on reclamation of slack coal only.

Names of seams or pits—Douglas seam.

Description of seams, tunnels, levels, shafts, etc., and number of same—The seam is reached by means of shafts. No. 3 shaft, which is used for hoisting, is 655 feet in depth, 10 by 16 feet in the clear; No. 4 shaft, which is used for ventilation, is 630 feet in depth, 10 by 12 feet in the clear; this air-shaft is equipped with steam-hoist and cage as the emergency outlet. the mine is opened out by slopes and levels; a pair of slopes are driven from the shaft-bottom in a north-easterly direction for approximately 2,500 feet; they are 12 feet wide. Another pair of slopes are driven in a south-easterly direction for approximately 1,600 feet; they are also 12 feet wide. Levels are driven right and left from these levels.

Description and length of tramway, plant, etc.—At this mine the plant consists of three 150-horse-power and one 100-horse-power boilers, return-tubular type; one pair of 24- by 36-inch hoisting-engines with safety overwinding device, with steam-reverse and steam-brake; two 10-foot sheaves and self-dumping cages are installed at the hoisting-shaft, and one pair of 16- by 24-inch hoisting-engines, cages, and fixtures complete at the air-shaft. In the power-house there are: One Canadian Rand cross-compound air-compressor, capacity 2,100 feet of free air a minute; one Norwalk straight-line compound air-compressor, capacity 707 feet a minute; one single straight-line Canadian Rand air-compressor, capacity 505 feet a minute; two 150-kw. electrical generators connected with 13 by 20 by 9 high-speed engines; one Sheldon ventilating mine-fan, belt-driven by a 17-20 steam-engine; a 60-horse-power electric motor is installed alongside for an emergency drive. There is a thoroughly equipped machine-shop, blacksmith-shop, and carpenter-shop, also mine-rescue station containing two sets of Gibbs rescue apparatus complete and pulmotor. In the tipple building there are two sets of Marcus screens, picking tables, etc.; the machinery being all electrically driven. A standard-gauge railway 7½ miles long, equipped with locomotives and fifty coal-cars, is used for handling coal from mine to tide-water at Boat harbour, the shipping-point, which is equipped with wharves, bunkers, washery, etc., to take care of the largest ocean-going vessels.

Canadian Collieries (Dunsmuir), Ltd.

Head Office—Montreal, Que.

Capital, $15,000,000.

Officers.	*Address.*
F. Perry, President,	Montreal, Que.
H. B. Walker, Vice-President,	Montreal, Que.
H. S. Adlington, Secretary-Treasurer,	Montreal, Que.
J. M. Savage, General Manager,	Victoria, B.C.
Thos. Graham, General Superintendent,	Cumberland, B.C.

The Canadian Collieries (Dunsmuir), Limited, in 1910 acquired all the holdings of the Wellington Colliery Company, Limited, and since then has been operating the following mines:—

The Extension Colliery, in the Cranberry District (Extension); T. A. Spruston, manager.

The Comox Colliery, in the Comox District; Charles Graham, district superintendent; William Walker, John L. Williams, J. G. Quinn, managers at the several mines.

The following table shows the combined output of all this company's collieries during the past year:—

AGGREGATE RETURNS FROM THE CANADIAN COLLIERIES (D.), LTD., MINES FOR YEAR 1921.

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	487,908			
" export to United States	77,395			
" " other countries				
Total sales		565,303		
Used in making coke				
Lost in washing	132,347			
Used under colliery boilers, etc.	35,531			
Total for colliery use		167,878		
		733,181		
Stocks on hand first of year	6,430			
" last of year	9,729			
Difference added to stock during year		3,299		
Output of collieries for year		736,480		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
Supervision and clerical assistance	88		55		143	
Whites—Miners	575				575	
Miners' helpers	11				11	
Labourers	269		153		422	
Mechanics and skilled labour	121		207		328	
Boys	10		44		54	
Japanese						
Chinese	430		272		702	
Indians						
Totals	1,504		731		2,235	

WELLINGTON-EXTENSION COLLIERY.

Thomas A. Spruston, Superintendent; James Strang, Manager, Nos. 1, 2, and 3 Mines.

This colliery is operated by the Canadian Collieries (Dunsmuir), Limited, and is composed of Nos. 1, 2, and 3 mines at Extension and No. 5 mine at South Wellington, all situated in the Cranberry district, and is connected to Ladysmith, Oyster harbour, by a railway 11 miles in extent, over which the entire output from the mines are hauled and shipped.

All the mines have worked steadily throughout the year, the coal being a very high grade of domestic fuel, being in great demand in and around the Coast cities.

The Nos. 1, 2, and 3 mines are opened up in the Wellington seam, which varies in thickness from 2 to 6 feet.

Portions of the seam are very much broken up by "folds" and "overlaps." The three mines, which were originally opened up on the outcrop of the seam, are now connected by a tunnel driven 14 by 7 in the clear on a 1-per-cent. grade and a little over a mile in length. Electric-motor haulage is maintained along the tunnel and continued into No. 2 mine a distance of 1¼ miles and half a mile in No. 3 mine. The type of electric locomotive used is the 13-ton Baldwin-Westinghouse.

(For description of power-house equipment and surface plant, tipple arrangements, wash-house, and mine-rescue station *see* Minister of Mines' Report for 1920.)

LADYSMITH.

The shipping-point for the output of this colliery is at Ladysmith, where the coal is either shipped by vessel or railway-cars by means of a transfer-barge to Mainland points. The coal-washery is also situated at this point, and consists of three washers of the following dimensions: Nos. 1 and 2, diameter 8 feet 9 inches, depth 5 feet 6 inches; No. 3, diameter 8 feet 3 inches, depth 5 feet 9 inches; computed capacity of each washer, 300 tons for twelve hours. Six compartment jigs are situated on the lower floor. Three Masco tables, 14 by 7 feet, take care of the fine coal, which produces a high-grade coal for coking purposes and foundry use. Power for the washery is supplied by a Pelton wheel which is operated from the mountain source.

A 40-kw. 240-volt Allis-Chalmers-Bullock generator supplies power to operate the Masco tables, which are driven by a 25-horse-power General Electric type H motor, and also supplies light for all purposes on the shipping-wharf, transfer-wharf, and around the plant.

There has been considerable interest taken in first-aid work at this colliery during the year; thirty-seven men have passed an examination in first-aid training and a number of them have taken training in mine-rescue work.

NO. 1 OR TUNNEL MINE, EXTENSION.

James Strang, Manager, Nos. 1, 2, and 3. Mines; William Wilson, Overman; James Glen, John Greenhorn, Walter Joyce, Thomas Wilson, William Clifford, David J. Gordon, and John Mawson, Firebosses.

This mine is the first intersected on the Main tunnel and is operating in what is known as the "Underlap" portion of the Wellington seam, which continues irregular in thickness and is subject to "steps" and "rolls" in the roof and floor of the seam, meeting with silted areas in the development of the same.

The method of mining is the long-wall system; owing to the broken and dislocated condition of the field, hand-mining is employed. During the year operations have been carried on in the No. 3 slope, in the various levels to the east and west, while the slope and counter-slope have been driven to within a workable area of the Main overlapping fault.

The Old No. 6 East section off the Main slope, which was abandoned some years ago on account of meeting with barren ground, has been opened up and driven a distance of 700 feet, passing through the barren ground into a showing of good coal, although somewhat thin. An incline has been driven up a distance of 400 feet off this level in fairly good coal.

The old Tunnel siding incline has been cleaned up and retimbered and developments commenced on the pillar-and-stall system in an area of good hard coal, averaging about 5 feet thick.

The haulage equipment consists of a 100-horse-power Ottumwa electric hoist situated at the top of the Main slope. The lower development of the No. 3 slope haulage is maintained by a 50-horse-power Ottumwa hoist driven by a Westinghouse motor.

The Edison storage-battery electric safety-lamps are in use throughout the mine. Only the firebosses use safety-lamps of the Wolf type for testing purposes. All blasting is done with permitted explosives fired by electric battery.

This mine is ventilated by a Murphy-type exhaust-fan with a capacity of 40,000 cubic feet of air a minute, against a 1.9-inch water-gauge, driven by an Allis-Chalmers-Bullock motor.

When I made my last inspection of this mine I measured 22,200 cubic feet of air a minute passing into the mine for the use of fifty-six men and five mules.

I found a small quantity of explosive gas in face of the West level skip. Timbering and roadways were in good condition and the mine entirely free from coal-dust.

Test made with the Burrell gas-detector in the return-airway showed 0.4 per cent. methane in 28,450 cubic feet of air a minute.

No. 2 Mine, Extension.

Robert L. Spruston, Overman; Joseph Watson, Robert N. Hamilton, William Cosier, Edward Heyes, William Simpson, William Bauld, John Davidson, and William Gilchrist, Firebosses.

This mine is divided into two districts—namely, No. 4 East district and the West Incline district. No. 4 East district turns off the Main tunnel at a distance of 1 mile from the entrance to the mine and is in a distance of 1¼ miles. It has been in continuous operation during the year, with the exception of the usual holidays and the Saturday afternoon shift; the miners not turning out in sufficient numbers to warrant the operation on these occasions. The method of mining is part long-wall and part pillar and stall, as the conditions and thickness of the seam permit.

The whole of the operations on the East side is concentrated on the rise side of the level and is divided into four inclines, three of which are operated by gravity. The East incline and No. 1 are worked on the pillar-and-stall method, while a portion of No. 2 incline is worked pillar and stall and a portion worked long-wall. No. 17 incline is worked exclusively on the long-wall system, the seam being very thin and undulating. The coal is gathered from all these inclines by a Baldwin-Westinghouse locomotive.

The West incline begins at a point about 500 feet to the west of the Main tunnel and parallels the old outcrop slope a distance of 2,000 feet, where the ventilating-fan is located.

Pillar-and-stall work and pillar-extraction have been the principal operations in this part of the mine during the year.

This mine, like No. 1, is equipped with the Edison storage-battery electric safety-lamps, safety-lamps of the Wolf type being used only by the firebosses for testing purposes. All blasting is done with permitted explosives fired by electric battery.

The pumping equipment of this mine consists of a 5-stage Mather & Platt turbine-pump, 375-gallons-a-minute capacity at a 250-foot head, running 1,400 r.p.m., driven by a 75-horse-power D.S.C. General Electric motor, and a 3-stage Mather & Platt pump, 275-gallons-a-minute capacity at 225-foot head, running 1,400 r.p.m.

The mine is ventilated by a Murphy fan of 40,000 cubic feet capacity, against a 1.9-inch water-gauge, and is driven by a 25-horse-power type D.L.C. General Electric motor.

When I made my last inspection of No. 2 mine I measured 33,000 cubic feet of air a minute passing into the mine, divided into three splits.

In No. 1 East split there was 15,000 cubic feet of air a minute passing for the use of forty-six men and seven mules.

In No. 2 East split there was 8,000 cubic feet of air a minute passing for the use of twenty-two men and five mules.

In the West side split there was 10,000 cubic feet of air a minute passing for the use of twenty-two men and three mules.

No explosive gas found in this mine. Timbering and roadways were in good condition and the mine fairly free from coal-dust.

Tests made with the Burrell gas-detector in this mine were as follows: No. 1 East split showing 0.2 per cent. methane in 16,300 cubic feet of air a minute; No. 2 East split showing 0.1 per cent. methane in 8,850 cubic feet of air a minute; West side split showing 0.3 per cent. methane in 11,300 cubic feet of air a minute; Main return airway showing 0.3 per cent. methane in 39,400 cubic feet of air a minute.

No. 3 Mine, Extension.

Thomas Strang, Overman; James P. Nimmo, Jr., David Davidson, George Smith, Daniel Campbell, and Patrick Malone, Firebosses.

This mine is reached from the end of the Main tunnel, the main haulage-road following the strike of the seam for a distance of 2,000 feet, where the slope connects with Malone's Dip section, McCoy's incline, and the Heading district; and an incline connecting the No. 4 West level and inclines to the rise side of the same. The whole operation in No. 3 mine is pillar-extraction.

The haulage equipment consists of a 50-horse-power Ottumwa electric hoist, driven by a 50-horse-power General Electric motor. The Main level haulage is operated by a Baldwin-

Westinghouse locomotive. The mine is ventilated by a Guibal exhaust-fan with a capacity of 60,000 cubic feet of air a minute, against a 1.7-inch water-gauge. This mine is also equipped with the Edison storage-battery head-lamp, with the exception of the firebosses. All blasting is done with permitted explosives fired by electric battery.

On my last inspection of this mine I measured 22,000 cubic feet of air a minute passing into the mine, divided into two splits.

In No. 1 split there was 12,000 cubic feet of air a minute passing for the use of thirty men and seven mules.

In No. 2 split there was 9,000 cubic feet of air a minute passing for the use of twenty men and five mules.

No explosive gas found in this mine. Timbering and roadways were in good condition and the mine fairly free from coal-dust.

Tests made with the Burrell gas-detector were as follows: No. 1 split showing 0.3 per cent. methane in 13,500 cubic feet of air a minute; No. 2 split showing 0.2 per cent. methane in 10,000 cubic feet of air a minute; Main return showing 0.4 per cent. methane in 29,000 cubic feet of air a minute.

The following are the official returns from the Wellington-Extension Colliery for the year ending December 31st, 1921:—

Sales and Output for Year.	Coal.		Coke.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	89,439			
" export to United States	57,204			
" " other countries				
Total sales		146,643		
Lost in washing	38,200			
Used by employees	3,899			
" under colliery boilers, etc	14,573			
Total for colliery use		56,672		
		203,315		
Stocks on hand first of year	1,458			
" last of year	3,342			
Difference added to stock during year		1,884		
Output of colliery for year		205,199		

Number of Hands employed, Daily Wages paid, etc.

Character of Labour.	Underground.		Above Ground.		Totals.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
Supervision and clerical assistance	28		19		47	
Whites—Miners	280				280	
Miners' helpers	11				11	
Labourers	111		39		150	
Mechanics and skilled labour	40		46		86	
Boys			20		20	
Japanese						
Chinese	5		56		61	
Indians						
Totals	475		180		655	

Name of seams or pits—Wellington Extension.
Description of seams, tunnels, levels, shafts, etc., and number of same—Nos. 1, 2, and 3 mines connected by Main tunnel.

No. 5 MINE, SOUTH WELLINGTON.

Thomas A. Spruston, Manager; David Martin, Overman; Joseph Lane, James E. Parrott, James McLachlan, Adam Watson, Thomas Robson, Neil McIntyre, Robert Ewing, and William Brown, Firebosses.

This mine is situated at South Wellington, about 5 miles south of Nanaimo, alongside of the Esquimalt & Nanaimo Railway. It is operating in the Douglas seam, adjacent to the Old Alexandria mine. The coal is shipped to Ladysmith and Mainland points over the Esquimalt & Nanaimo Railway, a small spur connecting the mine operation with the main line. The mine is entered by means of a slope at the outcrop.

The Main slope is driven down a distance of 3,000 feet and is 14 by 8 in the clear, and timbered with square 12 by 12 sets, 2-foot centres, from the slope entrance for a distance of 200 feet, and from this point with round sets, 4-foot centres; the upper portion of the slope is whitewashed and electric lights strung practically all the way.

During the year no development was done on the Main slope, the last 500 feet of which was barren ground. It was found when driving the face of the slope that the roof and floor met, thereby cutting or pinching the coal out entirely. Boreholes were put in the roof and floor at various points with a small diamond-drill, without any success.

The present operations of this mine consist of No. 3 North levels which are driven to the boundary, where a Diagonal slope is turned off and driven down a distance of 2,000 feet, and, like the Main slope, this slope was driven through barren ground for a distance of 600 feet, when 7 feet of high-grade coal was struck. At the present time there are three levels in operation on the North side of the slope and four levels on the South side. The coal varies in thickness in these levels from 2 to 8 feet and is worked on the pillar-and-stall system.

The No. 6 South levels off the Main slope are in a distance of 2,803 feet in barren ground composed of blue shales. Boreholes have been put in the roof a distance of 82 feet and in the floor 100 feet, without any results.

A borehole from the surface down and a distance of 1,000 feet from the face of the levels records a showing of 11 feet of hard coal. A Diagonal slope is turned off this level at a point 700 feet from the Main slope and is down a distance of 2,000 feet in coal; levels are operating to the north and south off this slope in fluctuating ground, the coal varying in thickness from 2 to 6 feet.

The haulage equipment consists of a steam-driven hoist, 18 by 36, situated on the surface to operate the Main slope. A 100-horse-power Ottumwa electric hoist, driven by a M.S.D. General Electric motor, hauls the output from the North Diagonal slope. The South Diagonal slope is operated by a 50-horse-power compressed-air-driven hoist.

The ventilation is produced in this mine by an 8-foot Stine fan, belt-driven by a 50-horse-power type 3 Westinghouse motor, with a capacity of 80,000 cubic feet of air a minute, against a 1.5-inch water-gauge. This mine is equipped with the Edison storage-battery electric safety-lamp, the Wolf type being only used for testing purposes by the firebosses. All blasting is done with permitted explosives fired by electric battery.

(For description of power-house equipment, plant, and buildings *see* Minister of Mines' Report for 1920.)

On my last inspection of this mine I measured 40,000 cubic feet of air a minute passing into the mine, divided into two splits.

In the South side split there was 18,000 cubic feet of air a minute passing for the use of forty men.

In the North side split there was 20,000 cubic feet of air a minute passing for the use of sixty men and seven mules.

I found a small quantity of explosive gas in face of No. 1 Right counter-level off No. 6 South slope. Timbering and roadways were in good condition and the mine free from coal-dust.

Tests made with the Burrell gas-detector in this mine were as follows: North side split showing 0.4 per cent. methane in 22,000 cubic feet of air a minute; South side split showing 0.3 per cent. methane in 20,000 cubic feet of air a minute; Main return airway showing 0.4 per cent. methane in 45,000 cubic feet of air a minute.

The following are the official returns from the No. 5 South Wellington Colliery for the year ending December 31st, 1921:—

Sales and Output for Year.	Coal.		Coke.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	59,671			
" export to United States				
" " other countries				
Total sales		59,671		
Lost in washing	26,291			
" under colliery boilers, etc	4,633			
Total for colliery use		30,924		
Stocks on hand first of year				
" last of year				
Difference { added to / taken from } stock during year				
Output of colliery for year		90,595		

Number of Hands employed, Daily Wages paid, etc.

Character.	Underground.		Above Ground.		Totals.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
Supervision and clerical assistance	8		3		11	
Whites—Miners	147				147	
Miners' helpers						
Labourers	39		11		50	
Mechanics and skilled labour	13		12		25	
Boys			5		5	
Japanese						
Chinese			21		21	
Indians						
Totals	207		52		259	

Name of seams or pits—South Wellington.
Description of seams, tunnels, levels, shafts, etc., and number of same—Slope.

COMOX COLLIERIES.

Report by Thos. R. Jackson, Inspector.

Charles Graham, District Superintendent.

These mines are situated in the Comox district, about 17 miles from Union Bay. A railway about 20 miles in length connects the various mines to a shipping-point at Union Bay, over which the whole output of coal is conveyed. The mines in operation are Nos. 4 and 5, No. 7 mine being permanently abandoned in month of September. Nos. 6 and 8 are not operating. No. 4 mine is located at the east end of Comox lake and is about 3 miles distant from the city

of Cumberland. No. 5 is situated about a mile from the city. No. 7 is located at the town of Bevan, nearly 6 miles in a northerly direction from the city of Cumberland. No. 6 mine is close to the city. No. 8 mine is about 2 miles north of Bevan.

There was no special development of note in the underground operations during the year. On the surface extensive repairs were carried out on the flume of the hydro-electric plant. The large area covered by the underground operations at No. 4 mine, Comox, has for some time been taxing the ventilation facilities at that mine. In October of the present year operations were started to install a second fan; with the new installation completed, the Nos. 1 and 2 slopes of this mine will be ventilated, each by a separate unit.

The present unit consists of a Sullivan reversible double-inlet fan having a capacity of 180,000 cubic feet a minute, against a 6-inch water-gauge. The fan is electrically driven by a 350-horse-power induction-motor, 2,200 volts, speed 250 r.p.m., and is directly connected to the fan-shaft. This fan will in future ventilate the workings of No. 2 slope, whilst the new installation will take care of the workings of No. 1 slope. The new unit is situated just west of the travelling-way, and in order to make room for the installation extensive changes were made in the railway-yard, which not only increased the capacity, but added much to the efficiency and appearance of the whole plant.

The new plant consists of a 108-inch double-inlet reversible Sirocco fan on concrete base, with half-housing in steel. The fan will be connected to the mine by a reinforced-concrete tunnel fully equipped with explosion-doors. The fan will run at 250 r.p.m. and will deliver 200,000 cubic feet of air a minute, against a 6-inch water-gauge. The primary power unit will be a 500-horse-power synchronous motor, 2,200 volts, equipped with a self-starting unit. The motor will run at 500 r.p.m., connected to the main shaft of the fan through a jack-shaft with silent chain drive in two sections, each 15 inches wide; the ratio between the motor and fan-speed being 2 to 1; the distance between centres of drives will be 106 inches.

In addition to the primary drive there will be carried as an emergency unit a 350-horse-power induction-motor, speed 250 r.p.m., which can be connected by a coupling direct to the main fan-shaft. This induction-motor is a duplicate of the motor now in use on the present ventilation units at No. 4 mine and also at Nos. 5 and 6 mines, and can in emergencies be used on any one of the three units. The power unit will be housed in a fire-proof concrete building with asbestos roofing, and in all makes one of the most complete and efficient ventilating plants in the Province.

Diamond-drilling.

During the year diamond-drilling was continuously prosecuted in the Tsable and Cumberland fields; much of the time three drills were in operation; one was withdrawn in October and transferred to the Ladysmith district.

In the Tsable River district, to the 115,220 feet of roads made to facilitate movement of drills and 15,051 feet of holes drilled during 1919 and 1920, there was added in 1921 12,900 feet of roads and 6,991.6 feet of drilling; all of this drilling gave a 2-inch core. In the Cumberland district 12,300 feet of roads were made to facilitate movement of the drills and 3,370 feet of holes drilled. This makes a total for the year in the Comox field of 25,200 feet of roads made and 10,361 feet of holes drilled.

The hydro-electric plant has been in constant operation throughout the year. The power-house has been operated satisfactorily and no repairs or improvements were required. Sufficient electricity is generated at this plant to supply motive power to all the collieries; also the wharf at Union Bay, including the lighting of this town, Courtenay, and the city of Cumberland.

First-aid and Mine-rescue Work.

I have much pleasure in reporting that active interest in first-aid and mine-rescue work continues in the district of Cumberland, a few more men having acquired the St. John Ambulance certificate. In the first-aid competition held under the auspices of St. John Ambulance Association, and open to the whole of Canada, Cumberland Colliery employees entered two teams in the contest, the result of which will not be known until some time in the beginning of the new year.

The sixth annual field-day of Vancouver Island Mine Safety Association was held on Labour Day on the athletic grounds, Cumberland. In the first-aid events Cumberland won three firsts

and a second, securing both first and second prizes in the British Columbia Department of Mines cup; also winning first in the 3-man and first in the 2-man contests.

The first prize, Department of Mines cup and gold medals, was won by No. 4 underground team of Cumberland, comprised as follows: Wm. Beveridge (captain), Jonathan Taylor, Robert Reid, Louis Francescini, and John Williams.

In the mine-rescue competition, six teams competing—namely, Nanaimo (3), Cumberland, Granby, and Ladysmith—Cumberland team carried away first prize with a perfect score of 500 points, winning the V.I.M.S.A. Shield and six Elgin watches. The team comprised Wm. Gillis (captain), Louis Francescini, Jonathan Taylor, Wm. Evans, and Arthur Watson.

Cumberland Station now consists of ten sets of approved type of Paul apparatus, the Draeger apparatus being entirely discarded. John Thomson is the supervising officer in charge of the station and does all in his power to advance the work, in addition to instructing the men in the mechanism of the machine and also lecturing to them on the subject. The machines and accessory outfit are given the best of care by the instructor. The rescue-station has always been ready to meet emergency calls, but no demands were made during the year.

Ten lessons of two hours' duration each constitute a complete course, performed in a training-gallery filled with irrespirable fumes; other conditions are made much similar in character to that in which a mine would be after a fire or explosion. The training is hard work; therefore much credit is due the men who voluntarily carry on this work.

It is rather regrettable to think that no candidates entered for a course of above work at the station this year. Different reasons might be given to answer why this is so, but the main reason is, I think, due to the laborious nature of work the candidate has to perform, which makes the course anything but popular.

At Cumberland a mine-rescue team has been practising once a week during the year, for which the company remunerates them with $2.50 each per practice. They are expected to put in four practices a month.

Safety-first Work.

George O'Brien continues to act as safety-first engineer for the company, visiting once a month all the collieries, surface and underground, and the wharves connected with these collieries in Comox and Extension districts.

It is gratifying to know that through the forces at work in this direction the results obtained are very commendable and warrants a continuation of safety-first methods for the prevention of accidents around mines.

Coal-mine regulation notices are in evidence, and safety-first notices in large letters are posted up in conspicuous places at the different collieries, printed in four languages, warning the workmen to strictly observe the rules laid down for their guidance.

At the entrance to No. 4 mine an electric safety-bell is set and so arranged that the trip of cars coming out or going in the mine causes a bell to ring, thereby warning the passer-by of approaching danger.

Inspection on Behalf of Workmen.

According to section 91, Rule 37, of the "Coal-mines Regulation Act," the workmen are entitled to appoint one or two of their number to make an inspection of all the mine once a month. This has been done regularly and no adverse report was received at this office during the year.

The company introduced an "efficiency committee" to inspect the mines as well. It consists of two miners taken from the mine employees, their wages being paid by the company.

No. 4 Mine, Comox.

William Walker, Manager; John S. Williams, Overman, No. 1 Slope; Charles Parnham, Overman, No. 2 Slope; Charles O'Brien and Norman Huby, Shiftbosses; Sam Horwood, J. Bennie, Nathaniel Bevis, Richard Hodson, Alfred Jones, Peter Myers, William Beveridge, John C. Brown, A. W. Watson, R. Barker, William Herd, Watkin Williams, Robert Reid, Thomas Lewis, D. P. Marsh, F. Hutchison, W. Whitehouse, J. Dando, Thomas Cunliffe, J. Taylor, and H. King, Firebosses.

This mine consists of two slopes with but one main entrance. There is also a manway, No. 1 slope is 7,000 feet in length, running due north. No. 2 slope is 9,000 feet long and runs

N. 45° E. These slopes diverge at a point about 75 feet from the main portal. The electric haulage-engine is so connected that trips can be run simultaneously on both slopes to a point where they converge to the main opening.

The men are conveyed from the bottom of these slopes in a man-trip at the end of each working-shift. A safety-car is connected to the rear car of the empty trip, which ensures the workmen's safety while riding up the slope.

The ventilation of this mine is produced by a Sullivan reversible fan, motor-driven, 350 horse-power, direct-coupled, running at 245 r.p.m., and capable of delivering 196,000 cubic feet of air a minute, against a water-gauge of 6 inches.

This mine has been in continuous operation during the year. Safety-lamps of the Wolf type are used by the firebosses; electric lamps of the Edison storage-battery type are used by all other employees. Where blasting is done only permitted explosives are used and these are fired by electric battery.

No. 1 Slope.

Electricity is used as the motive power to operate all pumps, winches, and coal-cutting machines. West side of No. 4 slope has a long-wall system of mining coal. Undercutting is done by a Sullivan type of coal-cutting machine. Miners digging coal by the long-wall system also work in this section. Loaders are employed to load out the machine-mined coal. Certificated miners supervise the timbering and general safety of the loaders. Pillars are also extracted from the upper side of East side section of No. 4 slope. A Sullivan coal-cutter does the undermining in some of the stalls in East side section. Seam varies from 3 to 7 feet in thickness.

Haulage from the faces is done by drivers with mules to No. 4 slope. A winch situated at top of this slope, on No. 15 West level, attends to delivery of cars. A 5½-ton Ironton storage-battery locomotive is used for hauling on above level to the bottom of Main slope, the source of supply. A recharging apparatus has been installed in above level, so that when necessary the motor can be run into the station and recharged.

During my last inspection in December I measured 32,480 cubic feet of air a minute passing into this part of the mine, divided into two splits.

In No. 1 split there was 13,000 cubic feet of air a minute passing for the use of sixty-three men and seven mules. Got a ⅜-inch gas-cap in No. 1 left place, No. 4 slant, off No. 3 West level, and a ¼-inch gas-cap in long-wall places off No. 1 West level. Section fairly free from coal-dust and general conditions fair.

In No. 2 split there was 13,000 cubic feet of air a minute passing for the use of sixty-two men and seven mules. Got a trace of gas in air off No. 20 East level pillars and a ¼-inch gas-cap in pillars off No. 2 slant, No. 1 East level. Section fairly free from coal-dust and general conditions fairly good.

No. 2 Slope.

The long-wall system of mining coal is in practice in New slope off No. 20 East level. In part of the section miners dig the coal; in the other part it is machine-mined. Extraction of pillars is conducted in the remainder of the mine, with the exception of No. 15 East level slope, the workings of which are now fairly extensive in the pillar-and-stall system.

The haulage system is much similar to that which obtains in No. 1 slope, except the motor.

During my last visit of inspection of this mine I measured 25,200 cubic feet of air a minute passing down slope at a point near No. 18 East level.

In No. 1 split there was 8,820 cubic feet of air a minute passing for the use of twenty-five men and three mules.

In No. 2 split there was 18,000 cubic feet of air a minute passing for the use of sixty-three men and eight mules. I found the ventilation and timbering fair and sections of mine fairly free from coal-dust. Got a slight gas-cap in Evans and Main slope places off No. 15 East level slope. Gas-cap of varying size in air of Nos. 16, 17, and 18 level places. No. 20 East level fenced off at door; also No. 1 level off No. 20 East slope. Got a quantity of gas at heading-face off No. 20 West level.

Owing to roof-break of six places of long-wall section off No. 20 East slope, a considerable quantity of gas was liberated, requiring No. 1 level off the slope and No. 20 East level to be fenced off.

Burrell gas-detector tests made by me in the various return airways gave the following results:—No. 1 slope: Main return, volume of air 44,600 cubic feet, 0.6 per cent. methane; No. 1 split, volume of air 23,040 cubic feet, 0.7 per cent. methane; No. 2 split, volume of air 8,000 cubic feet, 1.5 per cent methane. No. 2 slope: Main return, volume of air 56,000 cubic feet, 0.8 per cent. methane; No. 1 split, volume of air 8,820 cubic feet, 0.4 per cent. methane; No. 2 split, volume of air 35,000 cubic feet, 1.5 per cent. methane.

No. 5 Mine, Comox.

John G. Quinn, Manager; Robert Brown, Overman; Frank Crawford and Sam Jones, Shift-bosses; Duncan Thomson, Thomas Eccleston, William Devoy, Thomas Shields, John E. Spicer, William Harmison, James Monks, William J. Keenan, James Brown, Jasper Rutherford, Thomas Wilson, and A. Darbyshire, Firebosses.

The workings of this mine are reached by a shaft 280 feet deep. Electricity is used for hoisting, winch-driving pumps, coal-cutting machines, and operating Main level 6-ton motor, trolly-connected. At the bottom of No. 2 Dip slope a 5½-ton motor (Ironton) attends to the haulage on level 1,600 feet in length; the motor consists of storage-battery equipment. A recharging-station has been fitted up on the level. All the workings at present are in the Upper seam. Long-wall and pillar-and-stall systems are employed. Sullivan type of coal-cutters are principally used in stalls. Depth of undercut, 6 feet; height of seam varies from 2 feet 6 inches to 7 feet. Inclination of seam varies from horizontal to 6°. Coal-loading from the machine-cut face is done by loaders supervised by certificated miners.

In the long-wall coal getting and loading is done by certificated miners and helpers. No blasting is done without the use of cable and electric battery. Only permitted explosives are used. Electric lamps of the Edison type are used by the workmen, excepting firebosses, who use the Wolf type of safety-lamp. Part of the output is produced by extraction of pillars.

During my inspection in the month of December I measured 35,000 cubic feet of air a minute passing through the tunnel, divided into two splits.

East Split.—There was 13,000 cubic feet of air a minute passing for the use of forty men and six mules.

West Split.—There was 13,500 cubic feet of air a minute passing for the use of forty-two men and seven mules.

No. 2 Dip Section.—There was 16,500 cubic feet of air a minute passing for the use of thirty-five men and four mules. General conditions of mine good. Got a little gas at face of No. 4 West counter-level. Mine free from coal-dust.

The following represents the quantities of air passing in the different airways of No. 5 mine, also the percentages of methane in air obtained with Burrell gas-detector: East split, in 13,250 cubic feet of air a minute passing there was 0.2 per cent. methane; West split, in 8,320 cubic feet of air a minute passing there was 0.3 per cent. methane. Main return at fan, quantity of air passing a minute was 156,000 cubic feet; no methane.

No. 6 Mine, Comox.

John G. Quinn, Manager; Thomas Mordy, Overman.

There has been no coal hoisted from this mine during the year. Practically all the water made in Nos. 5 and 6 mines is hoisted from No. 6 shaft by specially constructed tanks capable of delivering 1,200 gallons of water a minute.

During my inspection in December I measured: East split, 12,000 cubic feet of air a minute passing; West split, 10,500 cubic feet of air a minute passing. Found no gas and general conditions of mine fair.

The following are the official returns for the year ending December 31st, 1921, of the aggregate output of all the Comox Collieries:—

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
Tons of 2,240 lb.	Tons.	Tons.	Tons.	Tons
Sold for consumption in Canada	338,798			
" export to United States	20,191			
Total sales		358,989		
Lost in washing	67,856			
Used by employees	6,258			
Used under colliery boilers, etc	6,168			
Total for colliery use		80,282		
Stocks on hand first of year	4,972			
" last of year	6,387			
Difference added to stock during year		1,415		
Output of collieries for year		440,686		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
Supervision and clerical assistance	52		33		85	
Whites—Miners	148				148	
Miners' helpers						
Labourers	119		103		222	
Mechanics and skilled labour	68		149		217	
Boys	10		19		29	
Japanese—Miners	66				66	
Labourers	9		1		10	
Chinese—Miners	94				94	
Labourers	256		194		450	
Totals	822		499		1,321	

Name of seams or pits—Comox mines.

Description of seams, tunnels, levels, shafts, etc., and number of same—Nos. 4, 5, and 6 shafts and Nos. 4 and 7 slopes.

COMOX INSPECTION DISTRICT.

REPORT BY THOMAS R. JACKSON, INSPECTOR.

I have the honour to submit herewith my annual report of the various coal-mines in my inspectorate for the year ending December 31st, 1921. They consist of the Western Fuel Corporation of Canada's No. 1 and Protection shafts, Nanaimo; the Canadian Collieries (Dunsmuir), Limited, Cumberland, Comox mines Nos. 4, 5, 6, and 7; and the Pacific Coast Coal Mines, Limited, Victoria, Suquash Colliery, Suquash, near Alert Bay, Vancouver island. A short description is given of each colliery, with the names of the certificated officials.

FIRST-AID AND MINE-RESCUE WORK.

I have much pleasure in being able to report splendid progress in first-aid work. Results indicate a lessening of accidents, which must be attributed to the forces at work tending to eliminate carelessness, negligence, want of thought, and lack of appreciation of danger, due to acts and defaults of the individual. With proper instruction and education leading to observe proper precautions against accidents, a greater reduction can confidently be expected. The Western Fuel Corporation passed the year without having a fatal accident in its mines. This record was attained something like twenty years ago.

Its employees entered four teams in the All-Canada first-aid competition held under the auspices of the St. John Ambulance Association. Dr. Hodgetts, of Ottawa, was the examiner. They competed for the Montizambert, Coderre, and Wallace Nesbitt trophies. The senior results will not be known until about the end of January or during February. In the juvenile competition Nanaimo's junior team won second prize in the Wallace Nesbitt trophy. Team: Fred Gard (captain), Chas. Warton, Geo. Wallace, T. Rothery, and Dave Kenmuir.

The company sent the following first-aid team to the International first-aid competition held at St. Louis, Mo., U.S.A., where they were successful enough to tie for fourth place in the contest: Joseph Barton (captain), Charles Nicholas, James Brown, George Carson, and Joe Tyler. Sixty-four teams competed. In such a large contest, working under different conditions, Nanaimo's showing was splendid. The company paid the team's expenses in addition to reimbursing them for the loss of wages sustained by them while away.

On Labour Day, at Cumberland, in the field-meet first-aid and mine-rescue competition, conducted by the V.I.M.S.A., the following first-aid team from Nanaimo won the Coulson cup: D. Simpson (captain), Wm. Thorpe, Wm. Neave, L. Samaan, and Seth Norris. Nanaimo also secured second prize in the two-man event.

Nanaimo's first-aid ambulance class continues to be held once a week in the Odd Fellows' Hall. During 1921 it has experienced a very flourishing condition from the point of membership, having 219 seniors and 30 juniors, making a roll total of 249. The 1920–21 examinations brought forth the following results: Fifteen got first-year certificates; four got second-year vouchers; three got medallions for third year; five got labels for fourth year; and three juniors' certificates were granted for first year.

It is rather disappointing to note that no candidates appeared at the mine-rescue station to undergo a course of mine-rescue work this year. Perhaps this condition can be laid down to the fact that the work is both irksome and laborious and therefore does not induce men to undergo the test. In the mine-rescue competition held at Cumberland on Labour Day a Nanaimo team won second prize, six Elgin watches. Their score was 498 points. Team: R. Laird (captain), J. Sutherland, T. Parkinson, Francis John, A. W. Courtney, and J. Hodgson.

The mine-rescue station at Nanaimo is under the supervision of J. D. Stewart. He is assisted by George Yarrow, the Western Fuel Corporation's instructor of mine-rescue apparatus. The station is maintained in a high state of efficiency and contains the Gibbs and Paul approved type of breathing apparatus and outfit of accessories. No emergency calls were made at the rescue-station, although it is always ready to respond to such calls.

SAFETY-FIRST WORK.

The safety engineer of the Canadian Western Fuel Corporation mines is Arthur R. Wilson, who continues to make visits of inspection to all its collieries, surface and underground, including the wharf and machine-shops, with the object of preventing accidents.

Warning notices are placed in conspicuous places, both on the surface and underground, intended to attract the attention of the employee and warn him to beware while at work, to give the best of care and attention to his personal security from accidents.

INSPECTION OF MINE ON BEHALF OF WORKMEN.

According to section 91, rule 37, of the "Coal-mines Regulation Act," the workmen are entitled to appoint one or two of their number to make an inspection of all the mine once a month. This was done regularly and no adverse report was received at this office during the year.

Gob-fires, South Side.

The workings in No. 2 South level, which were abandoned and section sealed off last year, has now been reopened from No. 4 South level section, which lies to the dip of No. 2 South level workings. So far no evidence of heating-up has occurred and extraction of pillars continues without interruption.

In No. 2 East level section reopening was commenced a short time ago, but had to be abandoned on account of heating-up. It is proposed to re-enter the panel from another point, some time in the future, when other portions affecting the section are securely sealed off.

Pacific Coast Coal Mines, Ltd.

SUQUASH COLLIERY.

Samuel D. Wark, Manager; C. S. Congalton, Fireboss.

This colliery is situated about 12 miles north of Alert Bay, on Vancouver island. During the year the only work done underground has been repair-work, restoring ventilation, and keeping mine clear of water. On the surface considerable surveying and location-work has been done, with the object of building a railway for handling the coal from the mines to tide-water and find a suitable shipping-point for the large tonnage which will be handled at some future date from this property.

It is intended to drive another opening to tap the seam on a grade of 1 in 6 and wide enough for two tracks to accommodate an endless-rope system of haulage. Simultaneously with the driving of the slope a modern tipple and washery will be erected, also wharves, bunkers, and railway.

The development done at this mine to date is as follows: A shaft 6 by 10 feet in the clear is down 170 feet, with a midwall between. One compartment is used for hoisting and also serves as downcast; the other compartment is used for an upcast. Parallel levels are driven from the shaft-bottom—one pair N. 45° W. and the other pair S. 45° E. The North-west levels have been driven approximately 500 feet. The South-east levels have been driven a distance of 1,200 feet, and long-wall exclusively has been opened up in this level, there being twenty-six places ready for operating on this face. Two hundred feet from the shaft on the South-east levels a pair of slopes are driven N. 45° E. for a distance of 1,700 feet. On the same level, 800 feet from the shaft-bottom, another pair of slopes have been driven N. 45° E. for a distance of 750 feet.

The coal is of excellent quality; it is very hard and practically smokeless. The thickness of seam averages about 6 feet.

Permanent installations at this colliery are as follows: One Goldie-McCulloch high-pressure boiler, 100 horse-power; two Goldie-McCulloch high-pressure boilers, 150 horse-power each, have been installed and foundations are in place for two more; a pair of winding-engines, 24- by 36-inch cylinders and 9-foot drum; permanent buildings, covering all machinery installed, have been erected; also the superintendent's residence and a model bunk-house of thirty-six rooms. There are also ten four-roomed houses and ten two-roomed houses, also a large store building. Telephone communication is established with the wireless station at Alert Bay.

A generator and engine have been installed to furnish light for the buildings of the plant and dwellings. The ventilation of the mine is produced by a Sheldon fan, 4 by 2½ feet, making 125 revolutions a minute. The fan is steam-driven.

NORTHERN INSPECTION DISTRICT.

Report by Thos. J. Shenton, District Inspector.

TELKWA COLLIERY.

This mine was operated for a period of five months during the year 1920 and an output for the same period of 1,400 tons of coal was made.

Note by Provincial Mineralogist.—The Telkwa Colliery is not mentioned this year by the Inspector, but it has been learned from the Resident Mining Engineer, J. D. Galloway, that the property has not been operated.

AVELING COLLIERY.*

BETTY MINE.

This coal-mine is situated some 6 miles from the town of Telkwa up the Telkwa river, on the left bank of the river. At present the mine is under lease to J. Gillespie and J. Wilson and is managed by J. Gillespie. Before operation commenced this year at this property, which is owned by Major Aveling, of England, the Government had a bridge erected across the Telkwa river to facilitate the transportation of the coal; this was completed in the month of September, immediately after which operations began. A new camp has been built to accommodate the men engaged, and coal-bunkers to carry about 20 tons of coal have been erected at the end of the bridge and chutes arranged to permit the loading of the wagons, in which it is shipped to the railway siding at Telkwa.

Two main adits have been driven in opening up the vein, which is about 18 feet thick and fairly clear of dross. Some trouble had been encountered in opening up the seam as desired by a slope on the true dip of the vein as at first attempted, and it was thought wise to drive in the adits at right angle to dip or direction of intended slope, and after reaching the point directly in line with the slope as mentioned, to drive the slope adit outward from this point to the surface; but ere the point could be reached trouble in the vein occurred, which for the time has interfered with the plan. The low entrance at which the vein was opened in the adits mentioned was such as to be almost even with the bed of the river, and due to a recent ice-jam the ice was forced into the adit, and the track was so completely covered with ice that the haulage of the coal was interfered with, and the No. 2 adit had to be abandoned until conditions were more favourable.

The coal in quality is very good for steam purposes and fairly good for domestic purposes, and is now making a record for itself in the market at Rupert and the places along the railway. During the five months of operation the output was 800 tons and an average of six men employed. In all inspections of the operation by me I have found all conditions to favourably agree with the "Coal-mines Regulation Act."

Note by Provincial Mineralogist.—The usual and requisite official return of output for the year has not been received either through the Inspector or direct from the operators. On February 20th, in response to a telegraphic inquiry, a wire was received from J. Gillespie, the operating lessee, that he had shipped about 800 tons of coal, all of which was consumed in the Province, and such amount was entered in the statistical statement of output.

FRASER LAKE COLLIERIES, LTD.

I made a visit early in the year to the town of Endako with the intention of looking into the coal prospect of this company situated at Fort Fraser. Here I met the manager of the company, C. J. Kettyle; he advised me that at that time they had not decided to open up the property, as they were awaiting a decision of the Government *re* taking-up of coal land, and when this was decided favourably they would then be in a position to commence business, and that if this took place he would let me know, as I intended to visit them again. However, I have through reliable sources found out that during the current year nothing was done.

NICOLA-PRINCETON INSPECTION DISTRICT.

REPORT BY JOHN G. BIGGS, INSPECTOR.

I have the honour to submit my annual report as Inspector of Coal-mines for the Nicola-Princeton Inspection District during the year 1921.

The companies operating during the year are as follows: The Middlesboro Collieries, Limited; Coalmont Collieries, Limited; Fleming Coal Company; Princeton Coal and Land Company; and the Chu Chua Coal Company; there being no change in the mining companies operating during the year.

Forecasting in the 1920 annual report that the Coalmont Collieries would be developed to a large producing mine during the present year I feel was quite justified, as these mines may

* *See also* Report, Resident Engineer, page 103.

now be classed among the larger producing mines of the Province. This colliery, situated on the Kettle Valley Railway, is in easy access to the Great Northern Railway, where a large amount of the output is finding a ready market in the United States.

I expect to see a more vigorous policy adopted by the Chu Chua Coal Company during the year 1922, as indications go to show that this will be extensively developed, being very accessible to the Canadian National Railway. It is at present the only producing coal-mine served by this railway in the Province and in close proximity to the city of Kamloops.

It is very gratifying to report that we have had no fatal accidents in this district during the year; while two of a rather serious character have been reported to this office. One occurred at the No. 4 mine of the Middlesboro Colliery on July 19th, when a driver, trying to pass a trip in motion to reach a mule, stumbled, fell against the cars, was carried along, with the result that he was squeezed against a post, resulting in a fractured pelvis. It is most unfortunate that drivers who, as a general rule, are very competent and active will take unnecessary chances, and indeed are frequently reckless.

A miner who was in the act of pulling down some rock at the face of his stall on a 30° pitch at the Fleming Colliery on December 29th misjudged the quantity, with the result that it rolled with the pitch of the seam, caught his leg against a post, resulting in a comminuted fracture above the ankle.

The coal-mines in the Merritt district are capable of sustaining a much larger output, but have been subject to a large amount of idle time during the year. This may be attributed to the coal companies depending to a large extent upon the Canadian Pacific Railway Company, and any slight depression on the railways appears to reflect very seriously at the mines, while the importation of fuel-oil for locomotives has a very serious effect upon the market for steam-coal.

MINE-FIRES.

The mines in this district have been very free from this source of trouble during the year, with the exception of the No. 1 mine of the Princeton Coal and Land Company, where there were indications of heating in the gobs. Fortunately this trouble was found to be local and the areas affected limited; they were sealed off by stoppings, which were very effective in preventing further trouble.

The coal-seams in this district are very susceptible to spontaneous combustion, and any crushed pillars or coal left in the gobs are subject to heating and require very careful attention. Unfortunately it is impossible to extract all the coal in the larger seams, where the only feasible method of work to be adopted is the panel system, with all disused and abandoned portions of the mines well sealed off by means of carefully and well-built stoppings to exclude the air.

FIRST-AID AND MINE-RESCUE WORK.

I am pleased to report an active interest displayed in first-aid and mine-rescue work during the year. A large class has been conducted in Merritt during the year under the tuition of Dr. Tuttil, assisted by a number of the older students, all showing a great desire to acquire a knowledge of first-aid treatment to the injured; while a very successful class has been conducted at Coalmont under the able tuition of Dr. Sheffield.

This work cannot be too highly commended, and great credit is due to the members who devote their time in an earnest desire to acquire the principles of rendering first aid to the unfortunate ones who may, in following their daily avocation, require the immediate services of a trained first-aid man.

The standard of mine-rescue work has been well maintained at the Middlesboro Rescue-station during the year; while a number of the older employees have taken supplementary training, eleven employees have taken a full course in mine-rescue work and qualified for certificates of competency.

This station is maintained in a high state of efficiency, where the apparatus of the Department of Mines, together with the apparatus of the Middlesboro Collieries is under the care of Mr. Stone.

During the year the Department of Mines installed two of the latest type of Gibbs rescue apparatus, making a total of four Gibbs apparatus and six of the Draeger type, with the necessary resuscitating devices fully equipped and ready for immediate use. This is the only station in this district where the rescue apparatus is maintained in an efficient state for

immediate use, for while the different mining companies provide this apparatus, it does not receive the care and attention required and is not in a fit state for immediate use.

Edison electric safety-lamps are in use by all the workmen at the mines in this district, having been installed during the year by the Coalmont and the Chu Chua Collieries as required by 1921 amendment to section 91, Rule 8, of the "Coal-mines Regulation Act."

Samples of mine-air have been tested with the Burrell gas-detector at all the mines in operation during the year, which show the quantity of methane in the air-currents to be fairly low.

Inspection on behalf of workmen, as required by section 91, Rule 37, of the "Coal-mines Regulation Act," has been well adhered to at the larger mines of the district, the reports having always been satisfactory, while at the smaller mines no attempt has been made to comply with this rule.

Middlesboro Collieries, Ltd.

Head Office—Vancouver, B.C.

Capital, $1,107,700.

Officers.	*Address.*
E. W. Hamber, President,	Vancouver, B.C.
G. S. Raphael, Vice-President,	Vancouver, B.C.
Thomas Sanderson, Managing Director and Secretary,	Vancouver, B.C.
C. M. O'Brian, Treasurer,	Vancouver, B.C.
Robert Fairfoull, Mine Manager,	Middlesboro, B.C.

Value of plant, $250,000.

MIDDLESBORO COLLIERY.

Robert Fairfoull, Manager.

This colliery is situated at the foot of the hill, about a mile west of the Merritt Railway Station, and is served by a branch line of the Kettle Valley Railway, this branch serving both the Middlesboro and the Fleming Colliery.

No. 4 Mine.

James Fairfoull, Overman; George Hudson, William Halliman, Thomas Archibald, Louis Clark, and Robert Drybough, Firebosses.

This mine is by far the largest and most extensive of the Middlesboro Collieries and is situated at the foot of the hill on the same elevation as the tipple; it is developed by means of a large and well-kept level passing through the Nos. 4, 5, 6, 8, and 9 seams. The portions of the Nos. 4 and 5 seams that can be reached from this level have been extracted and the seams at present in operation are the Nos. 6, 8, and 9. The measures have an inclination of 30° S.W., the seams averaging from 5 to 6 feet in thickness of fairly good bituminous coal overlaid with a shale roof.

The method of work is a modification of the pillar-and-stall system, with a pair of headings driven to the full pitch of the seam to the surface croppings, which are reached at a distance of 1,000 feet from No. 4 level, for facilitating the handling of the mine-timber and ventilation purposes. All the operations are to the raise of No. 4 level, and owing to the pitch of the seams the coal is conveyed from the workings by means of chutes, where it is loaded into the mine-cars by loaders, drawn by mules to landings, and hauled to the surface by main and tail rope haulage.

From the headings, levels are driven following the strike of the seams, with the necessary crosscuts to the required distance, when the coal in the pillars is extracted, all the coal being loaded into small dump-cars, trammed by hand to the Main heading and dumped, which convey the coal to the level. All the coal is taken out of the No. 4 level from this mine, with the exception of the upper part of No. 9 seam, which is hoisted out of a slope by means of a compressed-air hoist situated at the surface and lowered over a surface incline to the tipple.

During the year No. 4 level has been extended a distance of 150 feet, being driven in the hard sand rock a little below the foot-wall of the seam and broken through into the coal as required; this system prevents any heavy timbering being required in the level, also any squeezing taking place on the level when the pillars are being extracted above.

During the year mining has chiefly consisted in the drawing of pillars, the coal being mined by hand and blasted when required, permitted explosives being used and all shots being fired by electric detonators under the supervision of certified shotfirers.

Ventilation is produced by a rope-driven 8.5 double-inlet fan connected to a 14 by 18 Ideal steam-engine, which is greatly assisted by the natural ascensional ventilation of the mine. This fan is situated near the entrance to the tunnel and is so constructed as to be reversed when required, and upon my last inspection ventilation measured showed 41,000 cubic feet of air a minute passing into this mine, divided into three splits, each having separate openings through Nos. 6, 8, and 9 seams, passing 9,100, 17,400, and 14,500 cubic feet respectively for the use of seventy-two men and three mules. Speed of fan, 120 revolutions a minute; water-gauge, 0.6 inch; barometer, 27.2 inches; thermometer, 42° F.

The brattice doors and stoppings were in good order, with the air well conducted around the working-faces, and the ventilation very good. I have not at any time been able to find any trace of explosive gas with a safety-lamp, and have made several tests with the Burrell gas-detector with the same results. The working-places are well timbered and a sufficient supply of suitable timber provided for the use of the workmen. The roads and airways are in fairly good condition and free from dangerous accumulations of coal-dust.

No. 4 East Mine.

A. D. Allen, Overman; R. S. Brown, Fireboss.

This mine is situated a short distance to the east of the entrance to No. 4 mine and is operating No. 4 seam on the dip side of No. 4 mine, and consists of a pair of 15° slopes driven east a distance of 1,300 feet, which owing to the faulted nature of the ground have not been extended during the year. The seam in this mine is found at varying inclinations, with a large amount of overlapping, while during the year all the work has been in the lower level and mining has been to a large extent of an exploratory nature, these headings being driven to close proximity to No. 1 level, where a barrier of coal has been left and the coal on the sides of the headings extracted and the pillars drawn.

The method of haulage underground is by means of a small hoist and mules to a landing at the foot of the slope, and by a steam-driven hoist situated near the entrance to the slope for hoisting to the surface.

Ventilation is produced by a quick-running belt-driven fan driven by a small steam-engine capable of producing 40,000 cubic feet of air a minute, against a 1-inch water-gauge. During my last inspection ventilation measured showed 27,000 cubic feet of air a minute passing into this mine for the use of fourteen men and two mules. Water-gauge, 0.4 inch; barometer, 27.8 inch; thermometer, 32° F. The doors, stoppings, and brattice were in good order and the air well conducted around the face.

Only on one occasion during the year have I been able to detect explosive gas in this mine, owing to a leaking stopping which allowed the air to short-circuit, which was immediately remedied. I have made several tests with the Burrell gas-detector in this mine during the year and find the return air carrying 0.25 of 1 per cent. of methane. The working-places are well timbered and a sufficient supply of suitable timber provided for the use of the workmen. The roads are well timbered and in fairly good condition and free from dangerous accumulations of coal-dust.

No. 4 East Prospect.

This mine consists of a small area of the No. 4 seam which has been cut off the seam by faulting, and is developed by means of slopes driven from the croppings between the No. 4 and the No. 4 East mine. These slopes strike the coal at a distance of 80 feet where the mine has been opened upon the pillar-and-stall system, and owing to the limited area of the ground mining is very restricted.

During my inspections I have always found the ventilation of this mine to be good, the roads and working-places well timbered, and a good supply of suitable timber provided for the use of the workmen.

The coal is mined by hand and very little blasting is required, which is done under the supervision of certified officials. The roads, being naturally damp, are free from coal-dust.

The coal-seam in this mine is pitching 25°, the coal being loaded into dump-cars at the face and emptied into chutes, loaded into the mine-cars on the level, and taken by mule-haulage along the level to the foot of the slope and hoisted to the surface by means of a steam-hoist.

No. 7 MINE.

Andrew McKendrick, Overman; Thomas Rowbottom, David Crawford, and Mathew McKibben, Firebosses.

This mine is situated in the Coal Gully series at an elevation of 400 feet above the tipple and the entrance to No. 4 mine, operating the No. 4 seam, which is 15 feet in thickness, dipping 25° south and overlaid by a sand-rock roof, and working the upper 10 feet of the seam.

The mine is developed by means of slopes driven to the full pitch of the seam, levels being driven from each side of the slopes; all the work being driven to the rise of the levels and during the year has consisted of drawing pillars, which have been extracted to No. 7 level.

The ventilation is produced by a small quick-running belt-driven fan of the Guibal type, driven by a compressed-air engine situated near the entrance to the mine. During my last inspection ventilation measured showed 17,100 cubic feet of air a minute passing into this mine for the use of twenty-one men. Speed of fan, 150 revolutions a minute; water-gauge, 0.3 inch; barometer, 27.76 inches; thermometer, 34° F. The doors and stoppings were in good order and the air well conducted around the working-faces.

During the year I have not been able to find any trace of explosive gas with a safety-lamp, while testing with the Burrell gas-detector shows the ventilation current to contain 0.2 of 1 per cent. of methane. All the working-places were well timbered and a good supply of suitable timber provided for the use of the workmen, while the roads were well timbered and in fairly good condition and, being naturally damp, were free from coal-dust.

Work has been continued during the year at the seams of coal cropping in Coal gully below the No. 7 seam. On the East side the No. 5 seam is being developed by means of slopes driven a distance of 250 feet, showing 5 feet of fairly good coal; while on the West side of the gully the No. 1 seam is being developed by means of levels following the strike of the seam a distance of 300 feet, the measure being somewhat faulted; the seam is 7 feet in thickness and of a soft nature, and the work of a prospective character. The coal is hauled to a siding near the entrance to No. 7 mine by means of a small compressed-air hoist.

The coal at these mines is mined by hand and blasted, when required, by explosives of the permitted class, all shots being fired by electric detonators under the supervision of competent persons appointed for the purpose. Edison electric safety-lamps are used by the workmen and safety-lamps of the Wolf pattern by the officials for inspection purposes.

The coal from No. 7 and the upper part of No. 9 mine is collected by means of air-hoists at a siding situated at the top of a surface incline, and is lowered over this incline by 2-car trips to the tipple, the cars having a capacity of 1.5 tons, where they are unloaded by means of a Phillips crossover dump; a switchback and a chain creeper haul the cars back for distribution to the different mines. The coal passes from the dump to a rotary picking-table, to a shaking screen, where it is sized and stored in the bunkers and loaded into railway-cars as required.

During the year an horizontal tandem-compound Ideal engine, 10 by 18 by 12 inches, direct-connected to a 60-cycle alternating generator, 2,300 volts, 17 amperes, running at 275 revolutions a minute, with the necessary transformer bank and panel, has been installed in the compressor-house for operating a 2-stage centrifugal motor-driven pump at the river to replace the small steam plant which provides water for the power plant and domestic purposes.

Copies of the "Coal-mines Regulation Act," special rules, with plans, are posted near the entrance to the mines.

The mine-rescue station has been well maintained during the year, where, in addition to the equipment installed, two of the latest type of Gibbs rescue apparatus have been installed by the Department of Mines during the year.

The following are the official returns from the Middlesboro Colliery for the year ending December 31st, 1921:—

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 1,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	64,733			
" export to United States				
" " other countries				
Total sales		64,733		
Used in making coke				
Used under colliery boilers, etc.	2,689	2,689		
Total for colliery use				
Stocks on hand first of year	134			
" last of year	504			
Difference added to stock during year		370		
Output of colliery for year		67,792		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	12		5		17	
Whites—Miners	54	6.00-12.00			54	
Miners' helpers	33	5.00		4 80	33	
Labourers	44	5.00-6.00	18	5.25	62	
Mechanics and skilled labour			18	5.50-6.40	18	
Boys			8	2.40	8	
Japanese						
Chinese						
Indians						
Totals	143		49		192	

Name of seams or pits—No. 4, No. 4 East, No. 7, No. 5, East, and No. 5 West mines.

Description of seams, tunnels, levels, shafts, etc., and number of same—No. 4 mine, in which coal is mined from No. 6 and No. 8 seams; No. 4 East, from which No. 4 seam is mined; No. 7 mine, No. 4 seam is also mined from this mine; No. 5 East is in No. 5 seam; No. 5 West, No. 1 seam.

Description and length of tramway, plant, etc.—No. 4 seam: Access to the workings of this mine is gained by an entrance near the tipple; thence by a horizontal tunnel first driven in No. 5 seam; then by crosscutting the measures to No. 4, and again from No. 4 to No. 6 and No. 8 seams. The seams in this mine vary in thickness from 4 to 18 feet and pitch south, the angle of inclination being 30°. The coal is conveyed from the face to the mine-cars by chutes, and then hauled to the tipple by means of compressed-air hoists and ropes. Ventilation is produced by a Sheldon fan 8.5 feet in diameter, connected to an Ideal steam-engine, 14 by 18 inches, and is so arranged that the direction of the current can be changed. No. 4 East: This mine is operated by means of a slope driven east. The coal in this mine varies from 12 to 20 feet in thickness; pitches south-east, the angle of inclination being 15°. Haulage-rope is connected to steam-hoist. No. 7 mine: Operations in this mine are now

confined to the extraction of the pillars. No. 5 East: This mine is operating in No. 5 seam. A slope is now being driven east in the coal. No. 5 West: A horizontal tunnel has been driven in this mine a distance of 400 feet in the No. 1 seam, the direction being west. The coal in this mine pitches south, the angle of inclination being 15°. Haulage is by compressed-air hoist to the main landing; then by the same gravity-plane as the coal from No. 7 mine to the tipple. The main power plant is situated near the tipple, consisting of four return-tubular boilers, each 160 horse-power; Canadian Rand cross-compound compressor with a capacity of 2,000 cubic feet of free air a minute; Ideal compound engine direct-connected to a 75-kw. 2,300-volt General Electric generator; 25-kw. direct-current steam-engine set for lighting purposes.

The Fleming Coal Company, Ltd.

(FORMERLY THE INLAND COAL AND COKE COMPANY, LTD.)

Head Office—Vancouver, B.C.

Officers.	*Address.*
Joseph, Martin, President,	209 Metropolitan Bldg., Vancouver, B.C.
Joseph Graham, Managing Director,	Merritt, B.C.
Jos. Martin, Secretary-Treasurer,	209 Metropolitan Bldg., Vancouver, B.C.
A. E. Smith, Manager,	Merritt, B.C.

COAL HILL COLLIERY.

A. E. Smith, Manager.

This colliery is situated south-west of the Middlesboro Collieries, on the west side of Coal gully and about 1½ miles from the city of Merritt, and has operated in the No. 2 seam of this property during the whole of the year.

No. 2 MINE.

John T. Brown, Overman; George Maxwell, John Watterson Smith, James Sim, and Richard Dunnigan, Firebosses.

This mine is situated about 400 feet west of the entrance to the old No. 3 mine and has been developed by means of a pair of slopes driven to the full pitch of the seam a distance of 800 feet, where the boundary of this property is reached at this point. This seam has an average thickness of 6 feet, intersected by bands of rock and bone of varying thickness, and is generally overlaid with a good shale roof. The seam pitches S.W. 30° and the mine is developed by the pillar-and-stall system, with 50-foot centres, with stalls 12 feet in width. All the coal has been extracted to the east side of the slopes and the present workings consist of four levels driven west, with 200-foot lifts, and owing to the pitch of the seam all the coal is brought from the face of the stalls by means of chutes and loaded into the mine-cars on the levels.

The No. 1 level is the most extensive and has reached a distance of 1,000 feet, with twenty-one stalls driven to the full pitch of the seam to the crop-line, the whole work being followed up by the extraction of the pillars, sufficient being left to support the levels.

The method of haulage on the levels is by horse and hand; the mine-cars, having a capacity of 1 ton, are loaded at the several chutes, drawn to the landings situated near the slope, and hoisted to the surface in 4-car trips by means of main-rope haulage.

This mine is ventilated by means of a single-inlet belt-driven Aelos fan 6 feet in diameter, capable of producing 50,000 cubic feet of air a minute, against a 1-inch water-gauge, driven by a 60-horse-power steam-engine, which I have always found to be very good.

Upon my last visit of inspection the ventilation measured showed 36,000 cubic feet of air a minute passing into this mine, divided into two splits. In the lower split I found 16,000 cubic feet of air a minute passing for the use of seventeen men, and 20,000 cubic feet of air a

minute passing into the top split for the use of twenty-seven men and one horse. Water-gauge, 0.4 inch; barometer, 27.2 inches; thermometer, —4° F.

The doors, brattice, and stoppings were in good order and the air well conducted around the faces. While taking tests with the Burrell gas-detector, I failed to show any trace of methane in the air-currents. The working-places were well timbered and a sufficient supply of suitable timber was provided for the use of the workmen, and the mine is very free from dangerous accumulations of coal-dust.

All the coal is mined by hand and blasted, when required, by explosives of the permitted class, all shots being fired with electric detonators under the supervision of certified shotlighters appointed for the purpose. Edison electric safety-lamps are used exclusively by the workmen and safety-lamps of the Wolf pattern by the officials for inspection purposes.

From a siding near the entrance to the mine the cars are lowered by tail-rope haulage a distance of 2,000 feet to a landing at the top of the gravity-plane, while the tail-rope hoist hauls the empties back to the mine. This gravity-plane is connected directly with the tipple, 2,000 feet in length, and is provided with a Stine wheel, 1-inch steel cable, and is operated with 6-car trips. The cars are dumped by an ordinary tip-dump, where the coal is cleaned before going into the bunkers, which have a capacity of 500 tons, the coal being drawn as required and loaded into railway-cars. This tipple is directly connected to the Kettle Valley Railway by means of a standard-gauge track 1 mile in length.

There have been no additions made at this plant during the year, with the exception that the 6-foot Aelos fan which was used for ventilating the No. 3 mine has been installed at the present mine during the early part of the year, replacing the small direct-driven Sheldon fan.

The plant consists of two Leonard-type return-boilers having a joint capacity of 80 horse-power, situated at the mine, and provides steam for the Main slope hoist at dump-heap, small tail-rope hoist, fan-engine, and lighting plant, also for heating the wash and change house. A 25-horse-power vertical boiler is situated at the tipple, which provides steam for small hoist for collecting the cars at the tipple, also pump for delivering the water from the storage-tank at the tipple to the mine; a small pumping plant is also situated at the river, which delivers the water to the storage-tank at the tipple. The surface equipment consists of machine, carpenter, car-repairing, and office buildings, with wash and change house at the mine.

Copies of the "Coal-mines Regulation Act" and special rules, with plans, are posted near the entrance to the mine, with systematic timbering rules.

The following are the official returns from the Fleming Collieries for the year ending December 31st, 1921:—

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Total of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	34,330			
" export to United States				
" " other countries				
Total sales		34,330		
Used in making coke,				
Used under colliery boilers, etc.	1,561			
Total for colliery use		1,561		
Stocks on hand first of year	100			
" last of year	100			
Difference {added to / taken from} stock during year				
Output of colliery for year		35,891		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	5	7.00	2	6.00	7	
Whites—Miners	38	7.50			38	
Miners' helpers	5	5.00			5	
Labourers	5	5.00	16	5.00	21	
Mechanics and skilled labour	5	5.50	7	6.00	12	
Boys						
Japanese						
Chinese						
Indians						
Totals	58		25		83	

Name of seams or pits—No. 2. The coal averages 5½ feet thick, with two ribs of rock, making the actual coal, which is bright and hard, 4½ feet thick. Owing to the bands of rock the coal is very tight in the seam, requiring much more than the usual amount of explosives. The levels have been advanced to the west from the boundary, some as much as 1,600 feet, exposing quite a large body of coal available in pillars. There is so far an entire absence of gas and very little water. The other seams, Nos. 3 and 5, were closed during the year.

Description and length of tramway, plant, etc.—The plant mainly consists of two 40-horse-power Leonard-type and two 16-horse-power Beatty boilers. The main hoist is a 60-horse-power Ottumwa hoist, and the fan is an Aelos type of 30,000 feet capacity, driven by a 60-horse-power Ideal engine. No new additions were made to the plant, but it has been maintained in a high state of repair. The bunkers are of 400-ton capacity and connected to the mine by a self-acting tramway 1,800 feet long.

Chu Chua Mine Syndicate.

Officers.	*Address.*
A. H. B. Jordan, President,	Everett, Wash.
W. H. Glass, Vice-President,	Seattle, Wash.
H. W. Schuett, Trustee,	Seattle, Wash.
Major H. S. Hodgson, Secretary-Treasurer,	616 Alaska Bldg., Seattle, Wash.
James Gray, Manager,	Chu Chua, B.C.

CHU CHUA COLLIERY.

James Gray, Manager; William Holdsworth, Fireboss.

This property is situated 55 miles north of the city of Kamloops, on the east side of the Thompson river, the present openings being about 1 mile from the Canadian National Railway, and comprises part of the foot-hills and flats situated on each side of the Newhykulston creek on the Indian reservation and adjoining the holdings of the Wigan Collieries.

Several small seams of coal of a high-grade character are to be seen outcropping on the sides of the creek, lying very conformably and dipping into the foot-hills at an angle of about 20°; and while these seams are so well defined and of a good quality, it is somewhat doubtful if it will be possible to work them with any commercial success owing to their being somewhat small and intersected with rock-bands.

Until the latter part of the present year all the work has been concentrated in the top seam, which has been developed by means of a pair of adit levels driven from the croppings at the side of the creek and following the strike of the seam for 300 feet. The coal at the face of

these levels is about 3 feet in thickness, intersected by two rock-bands 100 feet from the entrance of the Main level. Slopes were driven to the full pitch of the seam a distance of 200 feet, being of a prospective nature; while it was found that there was no material difference in the thickness of the coal, there was a marked increase in the thickness of the rock, with the result that at the latter part of the present year it was decided to take out the track, withdraw all equipment, and suspend operations.

This mine has been developed by the long-wall system, the main gates being well brushed and packed. Chutes are used for carrying the coal from the faces to the mine-cars and all waste material is used for packing the gobs. The roof overlying the coal-seam, being composed of sand rock, made conditions very favourable for this method of work. All the coal is mined with coal-cutting machines of the post-puncher type and blasted, when required, by means of permitted explosives under the supervision of certified officials appointed for the purpose.

Gray Seam.

Some 600 feet below the No. 1 mine a seam of coal has been exposed in the Newhykulston creek, which was again proved by a Calyx drill 200 feet north of the creek, when a 30° haulage-slope was driven, cutting the seam at a distance of 80 feet, where there was found to be a good seam of coal 5 feet 4 inches thick, intersected by 6 inches to 1 foot of bone coal. The slope was driven down 160 feet at the end of the year and all work concentrated at this seam. The mine-run is hauled out of the slope by means of a small compressed-air hoist, dumped into a small bunker, and hauled by teams to the railway siding, a distance of 1 mile.

The power plant consists of one 44-horse-power locomotive-type boiler; one single-stage compressor, capacity 270 cubic feet of free air a minute; one small steam electric plant for lighting purposes and battery-charging.

I have always found the general conditions of these mines to be good, well ventilated, and free from explosive gas. The roads are in good condition and the working-places well timbered, and a sufficient supply of suitable timber is provided for the use of the workmen. The mines, being naturally damp, are free from coal-dust.

As required by 1921 amendment to section 91, Rule 8, twenty-five Edison electric safety-lamps have been installed at this mine for the use of the workmen, and safety-lamps of the Wolf type are used by the officials for inspection purposes.

Copies of the "Coal-mines Regulation Act" and special rules are kept posted near the entrance to the mines, also a good supply of first-aid appliances are provided.

The following are the official returns from the Chu Chua Colliery for the year ending December 31st, 1921:—

Sales and Output for Year.	Coal.		Coke.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	1,685			
" export to United States	200			
" " other countries				
Total sales		1,885		
Used in making coke				
Used under colliery boilers, etc.	275			
Total for colliery use		275		
Stocks on hand first of year				
" last of year				
Difference { added to / taken from } stock during the year				
Output of colliery for year		2,160		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	2	9.00	.....	.....	2	.....
Whites—Miners	8	5.75	.....	.....	8	.....
Miners' helpers	4	4.50	.....	.....	4	.....
Labourers	.....	.....	3	4.50	3	.....
Mechanics and skilled labour	.....	.....	2	5.75	2	.....
Boys	.....	.....	.....	.....	.....	.....
Japanese	.....	.....	.....	.....	.....	.....
Chinese (cook)	.....	.....	1	4.00	1	.....
Indians	.....	.....	.....	.....	.....	.....
Totals	14	.....	6	.....	20	.....

Name of seams or pits—No. 1 seam, now called the Thomas seam; No. 3 seam, now called the Gray seam.

Description of seams, tunnels, levels, shafts, etc., and number of same—Thomas seam: An adit level which starts from outcrop near creek, and is in a distance of 380 feet, was stopped owing to being too near the surface outcrop. Counter-level is in same distance; crosscuts 60-foot centres; seam pitches 20° to 23°. At 90 feet from surface on level a slope was started to the dip and was down a distance of 220 feet and opened out at long-wall. Coal-seam, 36 inches thick, with three bands of rock in same; sand-rock roof. Good domestic and steam coal. Gray seam: A slope was started from surface and cut into seam, which was struck in a bore-hole 40 feet from surface. Slope is now down 146 feet, from which levels are being driven right and left, and a raise is being put back to surface for ventilation. Crosscuts between levels, 60-foot centres; seam pitching 20° to 22°. Coal-seam is 60 inches thick, with three small bands of rock, and has a good roof. Good domestic and steam coal.

Description and length of tramway, plant, etc.—Coal is dumped into bunkers at No. 3 Gray seam, of 140 tons capacity, near entrance to slope; thence hauled by team a distance of half a mile to siding on Canadian National Railway for shipment. A tramway will be built during 1922; also two or three more drill-holes put down to further prove the property. The plant consists of one 44-horse-power boiler, locomotive type; one compressor, capacity 270 cubic feet of free air a minute; one steam electric plant for lighting, charging lamps, and for driving fan, with a total capacity of 75 kw. This plant will also be further increased during the year.

Coalmont Collieries, Ltd.

Head Office—Coalmont, B.C.
Capital, $3,000,000.

Officers.	*Address.*
W. J. Blake-Wilson, President,	Vancouver, B.C.
Gen. J. W. Stewart, Vice-President,	Winnipeg, Man.
A. H. Douglas, Secretary-Treasurer,	Vancouver, B.C.
Donald McLean, Manager,	Coalmont, B.C.

COALMONT COLLIERY.

Donald McLean, Manager; Alex. Bryden, Overman; John McMurtrie, Thomas Bysouth, Thomas Leeman, Robert Gourley, and John W. Sanders, Firebosses.

The Coalmont Collieries, Limited, is operating in the Coalmont field on the north-west side of the mountain, north of Granite creek, the openings of the present mines being at an elevation of 3,600 feet above sea-level and 1,600 feet above the town of Coalmont, where the tipple is situated. Until the latter part of the year 1920 the coal was hauled from the mine to the tipple over a wagon-road by 5-ton auto-trucks, by overhead tramway, constructed over the mountain, connecting the mine to the tipple.

These mines are developed by levels following the strike of the seam and are known as the Nos. 2 and 3 mines in the No. 4 seam of the series, which has an average thickness of 10 feet of clean coal immediately underlaid by a series of coal-seams of varying quality having an aggregate thickness of 80 feet.

The No. 2 levels are by far the most extensive and from which the larger portion of the present output is being extracted. Following the coal a distance of 3,250 feet from the entrance, they have not been extended during the year, standing at what is anticipated to be a 40-foot dip-fault, 200 feet from the face; a level is being driven cutting the measures to the raise, which is expected to prove this fault.

The measures are lying conformably and have an average of 29° W. All the work on No. 2 mine is driven to the rise and developed by the panel system, each panel being provided with a separate intake and return. Headings are driven to the full pitch of the seam and reach the croppings in the first panel at a distance of 600 feet from No. 2 level, with the crop-line of the seams heading away, and as a result a pair of levels known as the No. 1 levels have been driven to reach the coal to the rise, also to facilitate the handling of the timber for the use of the workmen. All the working-places are driven 12 feet wide, with the stalls following the strike of the seam, where the coal is loaded into dump-cars, trammed by hand, dumped into chutes, and conveyed by this method to No. 2 level, loaded into mine-cars, taken in trips by horse-haulage to the surface, lowered over a small gravity-plane to a landing on the same elevation and near the entrance to No. 3 mine, where all cars are collected and hauled by means of a 3-ton Jeffrey trolly-motor to the top terminal of the overhead tramway.

The No. 3 mine is situated 400 feet east of No. 2 and is developed by means of a fine 8 by 12 well-timbered tunnel known as the Wilson level, with the necessary counter, following the strike of the same coal-seam as No. 2; it has been operated during the whole of the year and extends a distance of 1,800 feet on the same elevation as the top terminal of the overhead tramway, and will eventually be the main level for developing this property.

The method of work adopted in this mine is very similar to No. 2, with the exception that the mine-track is laid in the headings, with back switches into the stalls, the mine-cars being hoisted by a small compressed-air hoist situated near the top of the heading.

All the coal is mined by hand and blasted, when required, by permitted explosives, all shots being fired by electric detonators under the supervision of certified officials appointed for the purpose.

Ventilation is produced by a 5-foot "booster" fan manufactured by the American Blower Company and is situated at entrance to fan-drift, 200 feet east of No. 2 level; it is built for producing 38,000 cubic feet of air a minute, against a 1-inch water-gauge, belt-driven by a 30-horse-power induction-motor.

During my last inspection ventilation measured showed 29,680 cubic feet of air a minute passing into this mine, divided into two splits. No. 2 mine showed 24,680 cubic feet a minute passing for the use of fifty men and seven horses, and No. 3 mine showed 5,000 cubic feet for the use of twenty-one men and one horse. Speed of fan, 1,000 revolutions a minute; water-gauge, 0.4 inch; barometer, 26 inches; thermometer, 24° F. The air was well conducted around the working-faces and the doors, stoppings, and brattice were in good order. The working-places are well timbered as required by the special rules and a good supply of suitable timber provided for the use of the workmen.

During my inspections I have not been able to find any trace of explosive with a safety-lamp, and upon examining the official report-books I fail to see where there has been any trace of explosive gas found in these mines. I have made several tests with the Burrell gas-detector during the year and have failed to find any trace of methane in the return air-currents of these mines.

The roads are naturally damp and due to the nature of the coal these mines are free from dangerous coal-dust.

PLANT AND EQUIPMENT.

During the year there has been a large amount of work done at these mines by way of the installation of electric equipment, which is the only power in use. The main power plant is situated at the town of Coalmont, a distance of 3 miles from the mines, and consists of two 250-horse-power water-tube boilers, with cross-drum and horizontally inclined tubes fitted with forced draught, duplicate pumps and feed-water heater attached, generating power by driving a

600-horse-power Corliss compound condensing-engine coupled direct to a G.G.E. 3-phase, 60-cycle, 480-ampere, 550-volt generator running at 150 revolutions a minute.

Transformers are situated near the power plant, where the voltage is increased to 10,000, taken over high-tension cables to transformers at the mine, where it is again reduced to 550 volts for power and 110 volts for lighting purposes.

The power plant at the mine installed during the year is as follows: 50-horse-power a.c. motor situated at the top terminal of the tramway, connected by belt and spur-gearing to a 10-foot return Fowler grip-pulley for controlling the tramway; 75-horse-power a.c. motor generating-set situated in the lamp-house and used for generating power for a 3-ton Jeffrey trolly-motor used for collecting and hauling mine-cars from the foot of the gravity-plane and No. 3 mine, and hauling the same to and from the top terminal of the tramway; 60-horse-power a.c. motor for driving belt-driven air-compressor, having a capacity of 830 cubic feet of free air a minute, running at a speed of 130 revolutions a minute, this power being used for driving the air-lifts at the tramway air-hoists and auxiliary ventilation purposes in the mine; small motor generating-set for charging 200 Edison electric-lamp batteries; 30-horse-power a.c. motor for driving the mine ventilating-fan; 30-horse-power motor at the tipple and small motor in the machine-shops. The No. 2 and No. 3 tunnels, machine-shops, mine-yard, houses, tipple, etc., have been provided with electric lights during the year.

OVERHEAD TRAMWAY.

During the year 1920 there was a large staff of men employed in the erection of the surface plant, overhead tramway, and the installation of machinery and equipment for producing coal on a large scale. This tramway, which was started in November, 1920, is about 2½ miles in length and is used for conveying the coal from the mine over the mountain to the tipple, the difference in elevation between the terminals being 1,600 feet. While this method of haulage has been successfully adopted at several of the metalliferous mines in the Province for the conveyance of limited quantities of high-grade ore, it was an entirely new departure around coal-mines, from which it was expected to produce coal on a large scale. At the commencement of operations it was a complete failure and incapable of sustaining the load it was required to carry owing to the wires of the carrying cables breaking, which caused the mines to work very intermittently during the early part of the year. However, by doing the necessary repairs and reducing the load in the buckets, the management was able to get along until the spring of the present year, when all work was suspended at the mine and the tramway overhauled and remodelled.

During the year the ¾-inch locked-coil stationary or carrying cable on the empty side of the tramway has been discarded and replaced by the 1⅛-inch locked-coil cable from the full side, this being again replaced by a new 1⅝-inch track-strand, reverse-lay, smooth-coil crucible-steel cable, and the ¾-inch endless or travelling cable has been replaced by a new ⅞-inch "Lang" lay steel cable. The return grip-pulley at the top terminal was fractured and was replaced by a Fowler grip-pulley. The top terminal has been remodelled by the installation of compressed-air lifts, which are used for lifting the box of the mine-car from the frame by means of carrier-arms to an overhead single rail connected to the tramway, also for lowering the empty car-box from the tramway to the car-frame. Control-house built at the top terminal, containing the necessary brake-levers, electric switches, and telephones; several of the towers adjusted and relined; large rocking-saddles at the towers installed to replace those of a fixed type.

Tensions connected to the carrying cables replaced by large blocks and anchors; the overhead rail connected with the tramway at "anchor hill" largely extended, with the bottom terminal at the tipple strengthened by means of reinforced concrete. Perhaps the most interesting feature of the tramway is the control, for while it is equipped with friction-brakes, they are very seldom required, being controlled by means of a 50-horse-power a.c. constant-speed motor situated at the top terminal of the tramway, running at 640 revolutions a minute, connected by belt and spur-gearing to the return grip-pulley, keeping the tramway running at a constant speed, generating power when required, and acting as a brake when the tramway is generating power by destroying the synchronity of the electric field and forcing a current against the voltage of the system.

The buckets have a capacity of 1 ton and are attached to the travelling rope by means of grips. The lower terminal at the tipple is provided with automatic detachers and attachers, the buckets running by gravity to the dump and emptied into a chute connected to a Marcus shaking

screen, and is at present provided for making three classes of coal; each bucket makes a return journey in 1¼ hours, with a total of eighty buckets on the tramway, and delivering at the tipple approximately 1 ton a minute. Since the repairs and changes have been made it is very pleasing to report that the tramway is giving every satisfaction and is very free from trouble.

This tramway is only operated on the one shift, and while there appears to be an almost unlimited demand for this coal, there is at present a limited accommodation for employees.

ACCOMMODATION FOR EMPLOYEES.

The accommodation for employees at the town of Coalmont is the same as reported during the year 1920, which consists of about twenty cottages, the property of the Coal Company, with a number of private cottages and a good hotel situated on the townsite.

The large and commodious rooming-house at the mine was completed during the beginning of the year and furnished to accommodate seventy-two men; this building is steam-heated, electric-lighted, and all bedding and furnishings are provided by the company to ensure cleanliness and comfort for the employees. This rooming-house is connected by a covered passage-way to a large combined change and wash house, steam-heated, provided with shower-baths, wash-basins, lockers, and large lavatory, which includes every convenience.

A large dining-room, well provided, comfortably furnished, well equipped, electric-lighted, steam-heated, with the necessary stores, is situated near the rooming-house, with accommodation for about 100 men.

During the year three officials' houses, doctor's office, and a number of small houses have been erected at the mine. The doctor's office is supplied with hot and cold water and well provided, with the doctor being in daily attendance at the mine.

The rooming-house, dining-room, and the wash-room are heated by a 42-horse-power Jencks tubular boiler situated at the mine, providing all the hot water necessary, while a water system with the necessary hydrants and hoses have been installed during the year for domestic and fire-protection.

As required by 1921 amendment to section 91, Rule 8, of the "Coal-mines Regulation Act," a modern lamp-house has been erected near the entrance to No. 3 mine, with the necessary repair-benches, charging-racks, small motor generating-set, with the installation of 200 Edison electric safety-lamps for the use of the workmen; while copies of the "Coal-mines Regulation Act," special rules, with systematic timbering rules and plans of mines, are kept posted near the entrance to the mines.

The following are the official returns from the Coalmont Colliery for the year ending December 31st, 1921:—

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	32,264			
" export to United States	27,445			
" " other countries				
Total sales		59,709		
Used in making coke				
" under colliery boilers, etc	3,635			
Total for colliery use		3,635		
Stocks on hand first of year				
" last of year				
Difference { added to / taken from } stock during year				
Output of colliery for year		63,344		

We load direct from mine to cars by means of an aerial tramway and have no storage facilities.

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	6	6.50	7	6.00	13	
Whites—Miners	50	7.50			50	
Miners' helpers						
Labourers	22	4.90	22	4.75	44	
Mechanics and skilled labour			6	5.87	6	
Boys	2	2.50	1	2.50	3	
Japanese						
Chinese			1	2.50	1	
Indians						
Totals	80		37		117	

Name of seams or pits—Nos. 2 and 3 mines in No. 1 seam.

Description of seams, tunnels, levels, shafts, etc., and number of same—Seam now being mined, average thickness 10 feet. No. 1 level driven 650 feet; No. 2 level driven 3,200 feet; No. 3 level driven 2,820 feet; all in same seam. Seam being mined, fourth seam under 12 feet of sandstone. Aggregation of seams immediately under seam mined average 80 feet in thickness. Total aggregation, 160 feet thick. Seam 300 feet below above aggregation 12 feet in thickness. All seams conformable.

Description and length of tramway, plant, etc.—Tram in No. 2 level, 3,400 feet; tram in No. 3 level, 2,820 feet; tram in yards, 2,620 feet; aerial tram, 15,110 feet. Plant at mine: One upright tubular boiler, 22 horse-power; two Jencks tubular boilers, 42 horse-power each; one induction-motor, 200 horse-power; one induction-motor, 50 horse-power; one induction-motor, 30 horse-power; one compressor, 1,055 cubic feet; one compressor, 500 cubic feet. At Coalmont: Two water-tube boilers, 250 horse-power each; one Corliss cross-compound condensing-engine, 600 horse-power; one generator, C.G.E., 3-phase, 60-cycle, 550 volts, 480 amperes, 150 r.p.m. Tipple with Marcus screen.

Princeton Coal and Land Company, Ltd.

Head Office—15 Great St. Helens, London, E.C.

Capital, $1,000,000.

Officers.	*Address.*
A. St. George Hamersley, Chairman,	London, England.
E. S. Neave, Secretary,	London, England.
Ernest Waterman, General Manager,	Princeton, B.C.
Francis Glover, Manager,	Princeton, B.C.

Value of plant, $77,000.

PRINCETON COLLIERY.

Francis Glover, Manager.

This colliery is situated near the town of Princeton, on the right bank of the Similkameen river near its junction with the Tulameen, and is situated in the Similkameen Mining Division.

PRINCETON No. 1 MINE.

William James, Overman; John Liddle, and George Walker, Firebosses.

This mine is developed by means of a pair of 12-per-cent. slopes driven to the full pitch of the seam and reaching the coal at a distance of 200 feet from the portal of the slopes. The

coal-seam averages 20 feet in thickness, the lower portion being somewhat dirty; the work is generally confined to the upper 10 feet of the seam, all work at present being confined to the extraction of pillars.

As stated in the 1920 Report, diagonal slopes had been started from the Main slope 750 feet from the portal, driven 15° west of the Main slopes, driven in a solid section of the coal which had been cut off the workings of the mine by faulting, when it was intended to extend these slopes below the present workings of the mine and again open up the mine in the lower measures by the panel system of working.

However, after being driven a distance of 500 feet there were indications of heating in the old gobs near the entrance to these slopes, and after spending some time trying to locate the source of trouble it was found to be very local, when this area was sealed off with stoppings well covered with gunite, which proved to be very effective in preventing further trouble; it being decided to extract all the coal that could be recovered on the sides of these slopes and abandon the same, and develop this seam from a new opening at some future time.

This coal is mined by coal-cutting machines of the post-puncher type, with very little blasting required, it being of a lignitic character and generally used for domestic purposes, the object being to recover it in as large a size as possible.

The coal-seam in No. 1 mine is very susceptible to spontaneous combustion and any crushed coal or small pillars left in the gob will very quickly spring into activity, providing it is allowed the necessary air to support combustion, and one has only to note the refuse and dump heaps situated at the surface to acquire a knowledge of the care and attention needed in the mine to guard against this source of danger. The chief object in view should be to obtain a system of ventilation and a mode of working that would tend to eliminate this source of trouble by adopting the panel system of working the coal, and all disused or abandoned portions of the mine sealed off with good substantial stoppings, so as to prevent any air circulating through any inaccessible roads.

Ventilation is produced by means of a small fan of the Guibal type, belt-driven by a small steam-engine, and upon my last inspection was producing 5,000 cubic feet of air a minute for the use of sixteen men. Water-gauge, 0.1 inch; barometer, 27.9 inches; thermometer, —0° F.

The method of haulage adopted at this mine is very simple, all the cars being brought by hand to the Main slope, all switching, collecting, and hoisting to the surface by means of a steam-hoist situated at the tipple.

During my inspections I have generally found this mine to be very free from explosive gas, and only on one occasion have I been able to find a gas-cap, and making a test with the Burrell gas-detector showed the return air to contain 0.15 of 1 per cent. of CH_4.

The roads were in fairly good condition and, being naturally wet, were free from coal-dust. The working-places were well timbered as required by the special rules, and a sufficient supply of suitable timber provided for the use of the workmen. Blasting, when required, is carried out at this mine under the supervision of certified officials as provided for by the "Coal-mines Regulation Act." Edison electric lamps are used exclusively by the workmen, while safety-lamps of the Wolf pattern are used by the officials for inspection purposes.

GEM SEAM.

Hugh Gillespie, Fireboss.

During the year preparation is being made to open the Gem seam, which is lying above the No. 1 seam and is being opened up from the cropping by means of a 6 by 8 well-timbered slope which has been extended for a distance of 100 feet, showing 4 feet of clean coal overlaid by a sand-rock roof, with 4 inches of mining-dirt in the floor.

This mine is situated 4,300 feet south of the No. 1 mine and about 2,000 feet south-east of the Princeton Station, and is served by the branch line of the Kettle Valley Railway which was extended to Copper mountain, which runs through the property.

The surface equipment consists of a tipple provided with a rotary tipple-dump, where the coal is dumped upon a stationary 2-inch bar-screen, where the large coal is cleaned and loaded into the cars. The coal falls through the bars to a hanging shaking screen, 12 feet in length and 6 feet in width, with ¾-inch mesh, and is collected by means of belt-conveyors, taken to the various chutes, and loaded into the cars.

The power plant consists of three return-tubular boilers with an aggregate capacity of 200 horse-power; Canadian Rand compressor having a capacity of 750 cubic feet of free air a minute, which is used for driving the power mining-machines, pumps, and small hoists in the mine; 25-horse-power mine steam-hoist situated at the tipple.

Well-equipped machine-shop, car-repairing and carpenter shop, wash-house, and lamp-house are well maintained, while a 30,000-gallon water-tank is provided for storage and fire-protection purposes.

Copies of the "Coal-mines Regulation Act," special rules, systematic timbering orders, and plans of the mine are kept posted near the entrance to the mine.

The following are the official returns from the Princeton Colliery for the year ending December 31st, 1921:—

Sales and Output for Year.	Coal.		Coke.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	9,804			
" export to United States	952			
" " other countries				
Total sales		10,756		
Used in making coke				
Used under colliery boilers, etc	2,925			
Total for colliery use		2,925		
Stocks on hand first of year	33			
" last of year	318			
Difference added to stock during year		285		
Output of colliery for year (not including waste, 1,118 tons—not provided for in this return)		13,966		

Number of Hands employed, Daily Wages paid, etc.

Character of Labour.	Underground.		Above Ground.		Totals.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		
Supervision and clerical assistance	4		2	4.41-7.14	6	
Whites—Miners	14	6.00-9.00			14	
Miners' helpers						
Labourers	18	5.00-4.50	8	3.85-4.00	26	
Mechanics and skilled labour			7	4.80	7	
Boys						
Japanese						
Chinese						
Indians						
Totals	36		17		53	

Name of seams or pits—Same as last year, with the addition of prospecting-work on the Gem Bed seam.

Description of seams, tunnels, levels, shafts, etc., and number of same—Same as last year, with the addition of shaker screens and picking-belt conveyor. The new slopes have been stopped and the coal is being pillared.

Description and length of tramway, plant, etc. The Gem Bed seam is opening up very promisingly so far and appears to average about 4 feet from roof to floor of clean coal, with a sandstone roof approximately 70 feet thick. The coal is of very high-grade quality, sub-bituminous.

EAST KOOTENAY INSPECTION DISTRICT.

REPORT OF ROBERT STRACHAN, SENIOR INSPECTOR.

I have the honour to submit the annual report covering the coal-mines in operation during the year 1921 in the East Kootenay Inspection District.

This district is directly in charge of John McDonald, with office in Fernie, and attached to this report is his description of the various mines in operation and the conditions which prevail in and around them.

The collieries in operation were the same as in the previous year—namely, Coal Creek, Michel, and Corbin; the first two owned by the Crow's Nest Pass Coal Company, Limited, of Fernie; the latter by the Corbin Coal and Coke Company, of Spokane, U.S.A.

No attempt was made to reopen either the Hosmer Colliery at Hosmer, owned by the Canadian Pacific Railway Company's Natural Resources Department, closed down in 1914, or the Morrissey Colliery, owned by the Crow's Nest Pass Coal Company, closed down in 1909.

Seven mines were in operation at Coal Creek, three at Michel, and two at Corbin during the entire year. At the latter colliery no coal was produced from the No. 3 mine or open-cut during the year, but development was pushed on the No. 6 mine, which proved the existence of a seam of coal 420 feet in thickness.

Relations between employees and employers have been very good during the year under the agreement entered into March 31st, 1920, which expires March 31st, 1922. Provision is made in the agreement that the parties will meet in conference thirty days prior to the expiration of the agreement to discuss a renewal thereof.

While there has been no loss of work due to labour troubles, lack of demand for coal has caused a great deal of loss of work throughout the year, amounting to: Coal Creek, 96 days; Michel, 83 days; Corbin, 124 days; or a total of 303 days for the district during the year.

ACCIDENTS.

Nine accidents were reported to this office, as provided for by the "Coal-mines Regulation Act," involving death or serious disability to the same number of workmen.

Many slight accidents occurred, but were not reported to this office, owing to the Act requiring only serious or fatal accidents to be reported, except in the event of an explosion of either powder, boiler, or mine, and it is very pleasing to be able to report that no accident of this kind occurred during the year.

The accidents according to the collieries were: Coal Creek, 6, including 2 fatal; Michel, 3; and Corbin, 2. Six of these occurred on or connected with haulage, two were due to falls of coal at the working-face, and one to fall of rock on the haulage-road.

In the case of Coal Creek the two fatal accidents occurred at the same mine, No. 2, the first being to a rope-rider while riding on the rear end of a loaded trip on its way towards the outside of the mine. The overhead timbers must have been settling down and grazed the top of the loaded trip; one of the timbers or a piece of lagging must have got between the last two cars, which pulled it out, allowing the roof to cave, sweeping the rope-rider off the end of the trip, burying him, while the trip continued to the foot of the incline. Following this accident an investigation was held by W. H. Wall, at which evidence was given and a special report made to the Hon. the Minister of Mines.

The second fatal accident occurred to a miner while on his way from his working-place to the lamp-room. He had reached the mine portal, when seven cars which had become detached from a trip, which was being pushed out by a compressed-air locomotive, overcame him, knocking him down, with fatal results.

Adequate manholes are provided on this haulage-road, which has a very easy grade, but sometimes workmen, in their anxiety to get outside, take unnecessary chances in trying to keep ahead of a trip of cars, and I consider provision should be made either to provide a travelling-way entirely apart from the haulage-roads, or have some means of preventing workmen travelling while the haulage is in motion.

The other two non-fatal accidents at Coal Creek were the case of a timberman's helper, while riding a rope during repair-work, jumping off a trip while in motion, being flung against the side of the roadway, and a driver being caught between a car and the sides. In the latter

case there was plenty of room between the side of the car and the roadway, but the empty car had got off the track, and while the driver was lifting it the horse started up, jamming him between the car and the side.

No accidents were reported from Coal Creek as occurring at the coal-face, which, I feel, reflects the vigilance of both the workmen and the officials.

At Michel two accidents occurred at the working-face, due to falls of coal, and should emphasize the necessity of greater care, both by the workmen and the officials. The other accident occurred to the driver of the locomotive outside the mine, who fell off while it was in motion.

At Corbin the two accidents reported both occurred outside the mine; one to a workman while trying to tip a dump-car with a lever, the car after being almost dumped swinging back, striking the lever and in this way dislocating his collar-bone; the second was to the driver on the tipple, whose foot got entangled with the horse's reins, pulling him off the front of the car, allowing it to run partially over him.

The causes of the accidents were as follows:—

Colliery.	Haulage.	Fall of Coal at Working-face.	Fall of Rock.
Coal Creek	3	..	1
Michel	1	2	..
Corbin	2	..	..

Four of the accidents, including one of the fatal, occurred outside the mine, and five, including one fatal, inside the mine. The accidents according to occupation are: Miners, 3; timberman, 1; drivers, 2; rope-rider, 1; motorman, 1; and trackman, 1.

The rate per thousand workmen employed is 1.13, and as compared with the previous year shows a decrease of 0.76.

The amount of coal produced for each man killed is 379.877 long tons, as compared with 282.463 for the previous year.

Coroners' inquests were held in the case of both fatal accidents, at which the Department of Mines was represented by the Inspector, and we wish to extend our thanks to the Coroner for allowing us every facility to clear up the cause of the accident.

Ventilation.

The general condition of the mines with respect to ventilation is dealt with in the report attached by John McDonald and reflects much better conditions than have prevailed heretofore. As in previous years, advantage was taken of the kind offer of the Dominion Department of Mines to analyse samples of the air from the various mines, and 247 samples were taken, of which 41, or 16.6 per cent., were lost, due either to leakage or breakage.

A new ventilating-fan is being installed at the No. 1 East mine, Coal Creek, with a capacity of about 300,000 cubic feet of air a minute; the work is completed with the exception of the driving machinery. Whether it will be driven by electric power or steam has not yet been determined, for with the introduction of hydro-electric power from the works of the Alberta and British Columbia Company at Bull river the tendency will be to use electric power instead of steam.

Coal-dust.

During the year the mines have been kept fairly good with respect to the treatment of coal-dust, water being used to a great extent for this purpose. As I mentioned in my last year's report, some method of sampling the dust at regular intervals and different portions of the mine, with the resultant analysis posted at the entrance to the mine, would assist in keeping the dangers from this source well to the front.

Bumps and Blow-outs.

No fatal or serious accidents have been reported from either of these sources during the year. Small bumps have been reported occasionally, but apart from destroying or wrecking a few hundred feet of roadway, nothing more serious has been reported.

These have been reported generally from the Main Tunnel district of No. 1 East and may have been due to a fault which has been encountered there; this fault has a displacement of about 40 feet and the sides are very well defined. Work is now proceeding to penetrate through the fault and probably some change in the conditions may be encountered.

The blow-outs have mostly been found in the working-faces of the No. 14 East slope of this mine (No. 1 East, Coal Creek) and have neither been so violent nor extensive as experienced in previous years. The work of drilling the working-faces to reduce the effect of these blow-outs still continues, and to show the perversity of human nature, the workmen sometimes complain of this work owing to the tendency to make the coal harder to mine, even although, as in one case lately, a blow-out occurred, displacing between 10 and 20 tons of coal, besides giving off a very large volume of methane.

INSPECTION ON BEHALF OF THE WORKMEN.

This inspection, as provided for by section 91, Rule 37, of the "Coal-mines Regulation Act," has been carried out regularly at all the collieries, and no occasion has arisen when the inspecting committee has deemed it necessary to make any complaints as to the conditions existing to this office as required by the same section and rule.

This work of inspection has been of great assistance to us in maintaining the conditions in the mines fairly good, and we are very much indebted to the workmen for the interest taken and the regularity of the inspection.

Searches of the workmen for matches, pipes, etc., contrary to the Act, have been carried out regularly at all the mines, and it is very pleasing to report that only in one case were matches found.

A list of the prosecutions is attached, and shows one case under the "Coal-mines Regulation Act" for having matches in possession contrary to section 91, Rule 9; one case for riding on a trip contrary to Special Rule No. 63; and five cases for failing to use sprags for the undermined coal, making a total of seven cases.

I have again to mention the inadequate penalties inflicted, especially in cases such as having matches in the mine, and when we consider the amount of damage and danger to life involved in mines with such possibilities of gas-outflow, a penalty of $5 would almost seem an encouragement than a detriment. It may be charitable to think that such penalties are due to the ignorance of the dangers of mining, but we cannot overlook the fact that hundreds of men's lives may hinge on a single match in the hands of an ignorant or careless workman.

Crow's Nest Pass Coal Company, Ltd.

Capital, $3,500,000.

Officers.	*Address.*
W. R. Wilson, President,	Fernie, B.C.
E. C. Whitney, Vice-President,	Ottawa, Ont.
R. M. Young, Secretary,	Fernie, B.C.
A. Klaner, Treasurer,	Fernie, B.C.
W. R. Wilson, General Manager,	Fernie, B.C.
Bernard Caulfield, Colliery Manager, Coal Creek Collieries,	Fernie, B.C.
Thomas H. Williams, Colliery Manager, Michel Collieries,	Michel, B.C.

The above company is now operating the following extensive collieries on the western slope of the Rocky mountains in the East Kootenay District, namely:—

Coal Creek Colliery, situated on Coal creek, about 5 miles from the town of Fernie, on a branch railway to the mines, connected at Fernie with the tracks of the Canadian Pacific Railway and also those of the Great Northern Railway.

Michel Colliery, situated on both sides of Michel creek, on the line of the Canadian Pacific Railway, being 23 miles in a north-easterly direction from Fernie.

The amount and disposition of this combined output of the company's collieries is fully shown in the following table:—

COMBINED RETURNS FROM CROW'S NEST PASS COAL CO.'S MINES FOR YEAR 1921.

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 2,240 lbs.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	85,467			
" export to United States	454,299			
" " other countries				
Total sales		539,766		
Lost in washing				
Used in making coke	85,644			
Used under colliery boilers, etc	56,004			
Total for colliery use		141,648		
Stocks on hand first of year	120			
" last of year	10,530			
Difference added to stock during year		10,410		
Output of colliery for year		691,824		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	ABOVE GROUND.		UNDERGROUND.		Totals.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
Supervision and clerical assistance	44		23		67	
Whites—Miners	627				627	
Miners' helpers						
Labourers	386		250		250	
Mechanics and skilled labour	48		216		264	
Boys	12		17		29	
Japanese						
Chinese			6		6	
Indians						
Totals	1,117		512		1,629	

COAL CREEK COLLIERY.

Bernard Caufield, Manager; Jas. Taylor, Assistant Manager.

This colliery is situated about 5 miles from Fernie, seven mines being operated, three on the north side and four on the south side of the Coal Creek. Connection is made at the town of Fernie with the Canadian Pacific and Great Northern Railways by the Morrissey, Fernie & Michel Railway. In addition to the coal-train, a regular passenger service is maintained for the convenience of the workmen, the majority of whom live in Fernie, while a large number of dwellings are provided at Coal Creek for those who prefer living near the works.

Nos. 1 East, 1 South, and 1 North mines are mining the No. 1 seam at different points, 10 feet of the upper portion being extracted in the first operation; Nos. 2, 3, and 9 mines are mining the No. 2 seam, which has an average thickness of 6 feet; B North is operating the

B seam, which has an average thickness of 5 feet, with 4 feet of inferior coal for a floor, part of this being taken up to allow of sufficient height for haulage. The inclination of the seams average about 12°, dipping to the east.

The tipple at this colliery is of steel construction, has a total length of 840 feet, extending right across the valley, and receives coal on both sides; it is equipped with two independent electrically driven circular dumps, which deliver the coal to feed-conveyors that supply the shaking screens. These separate the slack from the lump coal, the latter being delivered to the picking-tables, where all foreign material is picked out before it is finally loaded into the railway-cars; provision is made for loading into either open or box cars, two Smith hydraulic box-car loaders being provided for dealing with the latter.

The main power plant is situated on the north side of the valley and consists of fourteen boilers, with an auxiliary plant of five boilers on the south side; the total capacity of the whole plant is approximately 3,250 horse-power. Power to drive the compressed-air hoists and pumps underground is supplied by three compressors having a total capacity of 6,000 cubic feet of free air a minute, compressing it to 80 lb. to the square inch. There is also a Canadian Rand (high-pressure) compressor having a total capacity of 1,346 cubic feet of free air a minute, compressing it to 900 lb. to the square inch, which provides the power to drive the air-locomotives.

The electric plant consists of three generators with a capacity of 680 amperes at 250 volts, driven by two Robb-Armstrong engines, and provides the power to drive the fans at Nos. 1 South, 1 North, and B North mines, the motors on the tipple, as well as the electric light for the mine buildings, yards, and houses at Coal Creek.

A well-equipped lamp-room is located in a central position at the mines, where all safety-lamps are cleaned and repaired; this building is fully provided with all necessary appliances for keeping the lamps in a good state of repair. A large wash and change room is situated convenient to the mines, where the workmen can have a locker for a small monthly payment; these lockers are of steel construction, and the wash-house is under the charge of a workman whose duty it is to keep it in a clean and sanitary condition, the workmen providing their own soap and towel.

Copies of the "Coal-mines Regulation Act" and special rules are posted up at the colliery.

Following is a brief description of the mines and the conditions prevailing therein throughout the year:—

No. 1 East Mine.

J. Caufield, Overman; H. Dunlap, J. Duncan, J. Maltman, and T. Reid, Firebosses.

This mine is situated to the east of the tipple, the seam being reached by a drift at a distance of 215 feet from the entrance. The method of work is a modification of pillar and stall, levels being driven in pairs, each pair being separated by 150-foot pillars; after the first three sets of levels are set away the size of pillar is increased to 200 feet.

Ventilation is produced by a fan of the Wilson type, running at a speed of 148 revolutions a minute, which produces an average quantity of 120,000 cubic feet of air a minute, under a water-gauge of 3.5 inches.

A new fan has been installed during the year; the work of clearing the ground was commenced during the latter part of May, and, with the exception of the installation of the driving-motor, was completed at the end of November. The fan is an 11-foot-diameter Sirocco, calculated to deliver 300,000 cubic feet of air a minute; the fan-house and engine-room is a fire-proof building, built entirely of concrete, and measures 66 feet 9 inches in length to the centre of the shaft, is 43 feet 6 inches in width, being connected to the return airways by a shaft 60 feet deep and 16 feet in diameter.

This mine is ventilated by four splits; the quantities passing in each at the last inspection measured as follows:—North split, 180 by 80: 14,400 cubic feet of air a minute for the use of sixteen men and two horses. Second South, 370 by 70: 25,900 cubic feet of air a minute for the use of seventeen men and three horses; Burrell gas-detector, 1.1 per cent. methane. First South, 190 by 80: 15,200 cubic feet of air a minute for the use of twenty men and three horses; B.G.D., 0.7 per cent. methane. West split, 420 by 60: 25,200 cubic feet of air a minute for the use of thirty-three men and five horses; B.G.D. (not acting). Main return, 1,160 by 104: 120,640 cubic feet of air a minute for the use of eighty-six men and thirteen horses.

Throughout the year explosive gas has been found fifteen times in the course of inspection, mostly in cavities in the roof above the timbers, the soft nature of the roof making it a hard task to prevent entirely the formation of such. The percentage of methane present in the return air, as determined by the Burrell gas-detector, varied from 0.8 per cent. in the North split to 1.9 per cent. in the West split.

Conditions generally have been good all over the mine, roadways maintained in a good state of repair, and a good supply of timber kept in places convenient for the use of the workmen, while the "systematic timbering" order has been fairly well attended to at the working-faces. The mine has been kept fairly free from dust by the use of the spraying systems, and all main roads are treated with a combination of second-burnt ashes and water.

No. 3 Mine.

J. Biggs, Overman; R. Phillips, W. Brown, and E. Caufield, Firebosses.

This mine operates the eastern portion of the No. 2 seam. It is ventilated by 16- by 8-foot Wilson fan, running at a speed of 142 revolutions a minute, which produces an average quantity of 51,100 cubic feet of air a minute, under a water-gauge of 3.5 inches.

At the last inspection the ventilation was good and measured as follows: South split, 380 by 64: 24,320 cubic feet of air a minute for the use of thirty-three men and three horses; B.G.D., 1.7 per cent. methane. Incline split, 320 by 55: 17,600 cubic feet of air a minute for the use of twenty-two men and four horses; B.G.D., 0.8 per cent. methane. Main return, 890 by 60: 53,400 cubic feet of air a minute for the use of fifty-five men and seven horses.

No explosive gas has been found in this mine during the year in the course of inspection, and the percentage of methane in the return air, as determined by the Burrell gas-detector, varied from 0.7 per cent. in the Incline split to 1.8 per cent. in the South split.

A good supply of timber has been on hand at all times for the use of the workmen and the requirements of the "systematic timbering" order very well attended to at the working-faces. Roads have been maintained in good shape and the mine kept fairly free of coal-dust by the spraying systems, the main roads being treated regularly with second-burnt ashes. We have generally found conditions to be very good in this mine throughout the year.

No. 2 Mine.

C. McNay, Overman; J. Bushell, E. Ward, and W. Clarkstone, Firebosses.

This mine is on the south side of the valley and mines the south and west portion of No. 2 seam. It is ventilated by a 16- by 8-foot Wilson fan, which, running at a speed of 132 revolutions a minute, produces an average quantity of 38,750 cubic feet of air a minute, under a water-gauge of 3 inches.

The quantities passing in the various splits at the last inspection measured as follows:—Rock tunnel, 240 by 90: 21,600 cubic feet of air a minute for the use of fifty-seven men and six horses; B.G.D., 1 per cent. methane. High-line, 1,740 by 2: 3,480 cubic feet of air a minute for the use of eight men and two horses. Main return, 460 by 85: 34,850 cubic feet of air a minute for the use of sixty-five men and eight horses.

Explosive gas has been found once during the year in the course of inspection; on this occasion above the timbers at the face of the High-line level; while the percentage of methane present in the return air in the Rock Tunnel split, as determined by the Burrell gas-detector, has varied from 0.5 to 1 per cent.

Conditions generally have been good during the year; spraying systems have been maintained; these, with regular applications of second-burnt ashes on the main roads, have kept the mine fairly free from coal-dust.

We have generally found a good supply of timber kept in places convenient for the use of the workmen, while the "systematic timbering" order has been fairly well attended to at the working-faces. Roadways have been maintained in good shape and the work of repairing the main return airway still continues.

No. 1 SOUTH MINE.

F. Landers, Overman; W. Hynds, W. Stockwell, W. Morgan, and M. Hilton, Firebosses.

This mine is situated half a mile to the west of the tipple and mines the western portion of the No. 1 seam, the workings all being to the rise of the main haulage-road. It is ventilated by an electrically driven 8- by 4-foot Keith fan, running at a speed of 260 revolutions a minute, which produces an average quantity of 25,940 cubic feet of air a minute, under a water-gauge of 2.5 inches.

At the last inspection the quantity passing in the main return measured as follows: 260 by 100: 26,000 cubic feet of air a minute for the use of sixty-eight men and fourteen horses; B.G.D., 1.2 per cent. methane.

In the course of inspection explosive gas has been found eighteen times during the year, while the methane content present in the return air, as determined by the Burrell gas-detector, has varied from 1 to 1.6 per cent. Roadways have been maintained in fairly good shape, a good supply of timber has generally been provided for the use of the workmen, and the "systematic timbering" order fairly well attended to at the working-faces. Considering the amount of repair-work that is continually being done, general conditions have been fairly good during the year.

No. 1 NORTH MINE.

J. Worthington, Overman; E. Rutledge, J. Charnock, and H. Parsons, Firebosses.

This mine operates the western portion of the No. 1 seam on the north side; having a fairly good roof, and being close to the outcrop, no trouble has been experienced with gas to any great extent, and we have generally found conditions very good.

This mine is all on one split and is ventilated by an electrically driven 7- by 4-foot Keith fan, running at a speed of 210 revolutions a minute, which produces an average quantity of 21,000 cubic feet of air a minute, under a water-gauge of 1.8 inches.

The ventilation was good at the last inspection and measured as follows: Main return, 430 by 50: 21,500 cubic feet of air a minute for the use of sixty-men and nine horses. No explosive gas was found during the year in the course of inspection, roadways and working-faces have been kept in good condition, a good supply of timber generally provided for the use of the workmen, and the "systematic timbering" order well attended to at the working-faces.

The methane content in the return air has always been under 0.5 per cent., and the mine kept fairly free from dust. A considerable amount of cleaning-up and repairing has been done in the No. 9 district, with a view to making a connection with the inclines now driving up from the No. 9 mine.

No. 9 MINE.

Robert Fowler, Fireboss.

This mine is on the north side of the valley and mines the No. 2 seam. During the year the principal work has been driving the main and counter levels and repairing the return airway. It is ventilated by a Wilson fan, which, running at a speed of 50 revolutions a minute, produces an average quantity of 9,500 cubic feet of air a minute, under a water-gauge of 2.3 inches.

At the last inspection the quantity passing in the main return measured as follows: 160 by 50, 8,000 cubic feet of air a minute for the use of sixteen men and three horses.

A good supply of timber has been provided for the use of the workmen and the requirements of the "systematic timbering" order fairly well attended to at the working-faces. Roadways and working-faces are in good shape and the mine is fairly free of coal-dust, second-burnt ashes being spread regularly on the main roads.

No. B NORTH MINE.

W. Commons, Overman; Jas. Whyte and E. Jones, Firebosses.

This mine operates the B seam and is situated east of the tipple at an elevation of 200 feet above it. It is ventilated by an electrically driven 10- by 3-foot Brazil fan, which, running at a speed of 150 revolutions a minute, produces an average quantity of 42,560 cubic feet of air a minute, under a water-gauge of 1.5 inches.

Explosive gas has been found three times during the year in the course of inspection, while the methane content in the return air, as determined by the Burrell gas-detector, has varied from 1.2 to 1.8 per cent. in the No. 2 split.

Conditions have been fairly good throughout the year, roadways kept in good shape, a good supply of timber always provided for the use of the workmen, and the "systematic timbering" order fairly well attended to at the working-faces. Spraying systems have been maintained and the mine kept fairly free of coal-dust.

The ventilation was good at the last inspection and measured as follows:—No. 2 split, 240 by 70: 16,800 cubic feet of air a minute for the use of thirty-five men and three horses; B.G.D., 1.5 per cent. methane. No. 1 split, 230 by 65: 13,950 cubic feet of air a minute for the use of twenty-five men and three horses. Main return, 750 by 65: 48,750 cubic feet of air a minute for the use of sixty men and six horses.

The following are the official returns from the Coal Creek Colliery for the year ending December 31st, 1921:—

Sales and Output for Year.	Coal.		Coke.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	49,535			
" export to United States	320,410			
" " other countries				
Total sales		369,945		
Used in making coke				
Used under colliery boilers, etc.	36,621			
Total for colliery use		36,621		
Stocks on hand first of year	120			
" last of year	7,077			
Difference added to stock during year		6,957		
Output of colliery for year		413,523		

Number of Hands employed, Daily Wages paid, etc.*

Character of Labour.	Underground.		Above Ground		Totals.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
Supervision and clerical assistance	27		10		37	
Whites—Miners	378				378	
Miners' helpers						
Labourers	103		69		172	
Mechanics and skilled labour	186		120		306	
Boys	8		8		16	
Japanese						
Chinese						
Indians						
Totals	702		207		909	

* Does not include Fernie coke-ovens; not operated since April 4th, 1919.

The following shows the number of days Coal Creek Colliery worked each month during 1921:—

January	15	August	21
February	16	September	18
March	19	October	17
April	16	November	22
May	14	December	17
June	15		
July	17	Total	207

No. 1 mine worked only 10 days in December.

Name of seams or pits—No. 1 North, No. 1 South, and No. 1 East, same seam; No. B, Nos. 2, 3, and 9, same seam.

MICHEL COLLIERY.

Robert Bonar, Manager; Archibald Howden, Assistant Manager.

This colliery is situated on both sides of Michel creek, 24 miles north of Fernie, and has connection with both the Canadian Pacific and Great Northern Railways. Three mines have been operated during the year—Nos. 3 and 3 East on the south side of Michel creek, mining the upper No. 3 seam, while the No. 8 mine on the north side is operating the seam of the same name.

The general method of work is pillar and stall, rooms being turned off from the levels every 60 feet; crosscuts between rooms set off at the same distance, leaving pillars measuring 60 by 60 feet. The work of extracting pillars is being carried out to some extent in Nos. 8 and 3 East mines.

No. 8 mine being situated at an elevation of 500 feet above the tipple, the coal from this mine is weighed at the tipple at the top of the incline; then dumped into storage, from which it is loaded into skips and lowered by gravity to loading-chutes at the foot of the incline, from which it is drawn into the mine-cars and hauled to the tipple by endless-rope haulage.

The main tipple is of steel construction throughout, is 640 feet in length, and receives coal on both sides; the loaded cars from the South side being weighed at the foot of the tipple incline, up which they are taken by an endless chain-haul which travels on car wheels, the latter acting as pushers or retarders on the incline; these move in behind the rear wheels of the car, thereby conveying it up to the dump on the tipple.

This dump is simply a continuation of the track, with a pitch increasing from 20° to 60°; as the car reaches this point the door is opened and the coal discharged into the dump, the chain-haul continuing to travel around a large sprocket-wheel conveying the empty to the overhead track and back down the incline.

On the No. 8 side an automatic dump is in use, the cars being returned by a transfer underneath the track to the endless-rope haulage, which delivers them back at the foot of the incline. The tipple is equipped with shaking screens and picking-tables for separating the slack from the lump coal, the former being conveyed to storage-bins, from which it is drawn as required for the purpose of making coke, and provision is made for loading both open and box cars, two Smith gravity box-car loaders being used for loading the latter. No additions were made to the boiler plant and surface equipment during the year, a description of which was given in the 1920 Report of the Minister of Mines.

The safety-lamp in general use is the Edison electric mine-safety cap-lamp, while the Wolf is used by the bratticemen and officials for testing purposes, Burrell gas-detectors being provided to determine lower percentages of methane in the air-current than can ordinarily be detected by the Wolf safety-lamp.

Copies of the "Coal-mines Regulation Act" and special rules are posted up at the colliery.

Following is a brief description of the mines and the conditions prevailing therein:—

No. 3 MINE.

M. Littler, Overman; A. Frew, A. Davis, T. Owen, and T. James, Firebosses.

This mine is working the upper No. 3 seam, this being reached by a crosscut tunnel from the surface which intersects Nos. 5, 4, 3, and 3 East seams, the latter seam only being mined. It is ventilated by a 12- by 6-foot Sullivan fan, running at a speed of 130 revolutions a minute, which produces an average quantity of 65,670 cubic feet of air a minute, under a water-gauge of 2.2 inches.

At the last inspection the ventilation was good and measured as follows:—Main return, 1,100 by 100: 110,000 cubic feet of air a minute for the use of eighty-four men and eight horses. West side, 180 by 175: 31,500 cubic feet of air a minute for the use of forty-four men and four horses. East side, 580 by 90: 52,200 cubic feet of air a minute for the use of forty men and four horses.

Explosive gas has been found four times in the course of inspection, the quantities being small in each case and found close to the roof at the face. The percentage of methane in the return air, as determined by the Burrell gas-detector, has varied from 0.3 per cent. in the West side to 1.6 per cent. in the East side.

General conditions have been fairly good, roadways maintained in good shape, a good supply of timber being generally provided for the use of the workmen, and the "systematic timbering" order fairly well attended to at the working-faces.

Spraying systems are in operation on all roads that are inclined to be dry and dusty, and the mine has been maintained fairly free from dust at all inspections.

No. 3 EAST MINE.

M. D. McLean, Overman; A. Ball, W. Picton, R. Clarkstone, and R. McFegan, Firebosses.

This mine is also mining the upper No. 3 seam and is situated about half a mile east of the tipple. It is ventilated by a 16- by 8-foot Wilson fan, which, running at a speed of 124 revolutions a minute, produces an average quantity of 107,480 cubic feet of air a minute, under a water-gauge of 2.3 inches.

During the year explosive gas has been found ten times in the course of inspection, generally in cavities in the roof, while the methane content in the return air, as determined by the Burrell gas-detector, has varied from 1 per cent. in the No. 6 East split to 1.8 per cent. in the West split.

Working-faces and roadways have been kept in good shape, with the exception of the No. 6 East return airway, which is in need of repairs in several places. We have generally found a good supply of timber on hand for the use of the workmen and the "systematic timbering" order well attended to at the working-faces. The mine has been kept fairly free from dust by the use of water-spraying systems, second-burnt ashes being spread frequently on the main roads.

At the last inspection the ventilation was good and the quantities passing in the various splits measured as follows:—Main return, 1,760 by 63: 110,880 cubic feet of air a minute for the use of eighty-eight men and ten horses. West split, 1,060 by 50: 53,000 cubic feet of air a minute for the use of forty-eight men and five horses; B.G.D. (not acting). No. 6 East, 250 by 96: 24,000 cubic feet of air a minute for the use of forty men and five horses; B.G.D., 1.1 per cent. methane. East of slope: 520 by 40: 20,800 cubic feet of air a minute for the use of ten men. No. 6 East slant, 180 by 28: 5,040 cubic feet of air a minute; this district has been stopped for some time.

No. 8 MINE.

Thos. Baybutt, Overman; A. Almond, E. Ainsworth, J. Marsh, and R. Taylor, Firebosses.

This mine is situated at an elevation of 500 feet above the tipple on the north side of the valley and mines the No. 8 seam. It is ventilated by a compressed-air-driven 8- by 4-foot Murphy fan, running at a speed of 150 revolutions a minute, which produces an average quantity of 34,960 cubic feet of air a minute, under a water-gauge of 0.5 inch.

The quantities passing in the various splits at the last inspection measured as follows:—West side, 600 by 30: 18,000 cubic feet of air a minute for the use of fifty-two men and six horses. No. 6 incline, 450 by 40: 18,000 cubic feet of air a minute for the use of fifty-six men and six horses. Main return, 600 by 70: 42,000 cubic feet of air a minute for the use of 108 men and twelve horses.

We have not found any explosive gas during the year in the course of inspection, and the percentage of methane in the return air has been kept under one-half of 1 per cent. Roadways and working-faces have been maintained in good shape, a good supply of timber generally provided for the use of the workmen, and the "systematic timbering" order fairly well attended to at the working-faces. While the mine has been kept fairly free of dust, some method of dealing with this should be considered for the No. 6 Incline district, where some of the roadways are inclined to be dry.

The grade has been completed for a new gravity-plane to be operated from one of the upper levels which has been driven through to the surface.

The following are the official returns of the Michel Colliery for the year ending December 31st, 1921:—

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	35,932		41,878	
" export to United States	133,889		18,092	
" " other countries				
Total sales		169,821		59,970
Used in making coke	85,644			
Used under colliery boilers, etc.	19,383			
Total for colliery use		105,027		
Stocks on hand first of year			580	
" last of year	3,453		44	
Difference { *added to / †taken from } stock during year		*3,453		†536
Output of colliery for year		278,301		59,434

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC. (INCLUDING COKE-OVENS).

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
Supervision and clerical assistance	17		13		30	
Whites—Miners	249				249	
Miners' helpers						
Labourers	30		181		211	
Mechanics and skilled labour	115		96		211	
Boys	4		9		13	
Japanese						
Chinese			6		6	
Indians						
Totals	415		305		720	

The following shows the number of days Michel Colliery worked each month during 1921:—

January	20½	August	20
February	20	September	18
March	23	October	16
April	18	November	22
May	14	December	21
June	14		
July	16	Total	222½

No. 3 side worked only 10 days during December.

Name of seams or pits—New No. 3 (top section of No. 3 seam); Old No. 3 (lower section of No. 3 seam); New No. 8 (Old No. 8 seam continued).

Corbin Coal and Coke Co., Ltd.

Head Office—Spokane, Wash.

Capital, $7,000,000.

Officers.	*Address.*
Rush Taggert, President,	New York, N.Y.
J. K. O. Sherwood, Vice-President,	New York, N.Y.
Wm. Weaver Heaton, Secretary-Treasurer,	New York, N.Y.
A. M. Allen, Assistant Treasurer,	Spokane, Wash.
R. S. Ord, General Manager,	Spokane, Wash.
E. L. Warburton, Mine Manager,	Corbin, B.C.

Value of plant, $400,000.

CORBIN COLLIERY.

E. L. Warburton, Manager.

This colliery is situated 14 miles from McGillivray Junction on the Crowsnest branch of the Canadian Pacific Railway, is reached by means of the British Columbia Eastern Railway, and consists of the following mines: Nos. 4, 5, and 6. No coal has been produced during the year from the No. 3 mine or "Open-cut"; the latter has been dismantled and the equipment brought down to the central yards at the colliery.

The boiler plant, consisting of two Jencks return-tubular boilers and one of the locomotive type, has a total capacity of 275 horse-power. The electric plant consists of one 70-horse-power generator, alternating type, 2,300 volts, driven by one 100-horse-power steam-engine, and provides the power to drive the motors at the machine-shops, the fan at No. 6 mine, and for lighting purposes around the town of Corbin.

The tipple, constructed of wood, has a bunker capacity of 1,200 tons and is equipped with a Marcus screen and conveyor-belt, driven by a 60-horse-power steam-engine. A lamp-room is located in a central position at the mines, where all safety-lamps are cleaned and repaired.

The lamps in use are chiefly the Edison electric type, the remainder being the Wolf-safety, the latter being used by the officials for testing purposes, while a Burrell gas-detector is provided for the detection of lower percentages of methane in the mine-air than can ordinarily be detected by the Wolf safety-lamp.

Copies of the "Coal-mines Regulation Act" and special rules are posted up at the colliery.

Following is a brief descrpition of the mines and the conditions prevailing therein throughout the year:—

Nos. 4, 5, and 6 Mines.

W. Almond, Overman; H. Osborne, Shiftboss; J. Virgo, G. Luck, G. Elmes, H. Ferryman, and E. Hardie, Firebosses.

The No. 4 mine is operating the No. 4 seam, which is vertical and varies from 50 to 200 feet in thickness. During the year the most of the coal has been taken from the 400 and 500 levels,

where the method of extracting the pillars is by the caving system on the retreat, and a fairly large area in these levels can now be mined by this method.

The only development-work done during the year was in the 300 Right level, but a considerable amount of repair-work has been done cleaning up old roadways in preparation for extracting the pillars, and at present a new road is driving through the old workings to provide better haulage facilities in the 300 level. No further trouble has been experienced with fires during the year and careful watch is maintained at the sealed-off area in No. 4 level.

At the last inspection the ventilation was good and measured as follows: Intake airway, 720 by 35: 25,200 cubic feet of air a minute for the use of twenty-eight men and two horses.

No explosive gas was found by us during the year, roadways and timbering in good shape, plenty of timber being provided for the use of the workmen, and the "systematic timbering" order well attended to at the working-faces.

This mine, being naturally damp, is free from coal-dust and conditions generally have been very good throughout the year.

No. 5 MINE.

Very little work has been done during the year. The main and counter levels have now been driven a total distance of 500 feet from the point of entry, but work was suspended in November.

No. 6 MINE.

A considerable amount of work has been done at this mine during the year, a tipple being completed, to which the coal is lowered by chutes from the various levels; a tramway has also been constructed from the railway to the upper workings, by which the material is conveyed to the mine.

An outlet has been put through to the surface from the 5,315 level, and a small Sirocco fan, estimated to deliver 10,000 cubic feet of air a minute, is now being installed at this place.

No gas has been found in this mine and conditions have been very good at all inspections; a good supply of timber being provided at all times for the use of the workmen and the "systematic timbering" order well attended to at the working-faces.

Crosscutting has proved this seam to be about 400 feet thick, and it is being blocked out double-stall method, pillars between levels measuring 70 by 120 feet.

The following are the official returns from the Corbin Colliery for the year ending December 31st, 1921:—

SALES AND OUTPUT FOR YEAR.	COAL.		COKE.	
(Tons of 2,240 lb.)	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada	18,794			
" export to United States	41,032			
" " other countries				
Total sales		59,826		
Used in making coke				
Used under colliery boilers, etc.	4,656			
Total for colliery use		4,656		
Stocks on hand first of year	5,765			
" last of year	9,214			
Difference added to stock during year		3,449		
Output of colliery for year		67,931		

NUMBER OF HANDS EMPLOYED, DAILY WAGES PAID, ETC.

CHARACTER OF LABOUR.	UNDERGROUND.		ABOVE GROUND.		TOTALS.	
	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.	No. employed.	Average Daily Wage.
		$		$		$
Supervision and clerical assistance	7	8.81	9	6.08	16	7.44
Whites—Miners	45	7.84	.....	.....	45	7.84
Miners' helpers	38	6.89	.....	.....	38	6.89
Labourers	.....	.....	35	6.80	35	6.80
Mechanics and skilled labour	.....	.....	10	7.70	10	7.70
Boys	.....	.....	1	4.40	1	4.40
Japanese	.....	.....	.....	.....	.....	.....
Chinese	.....	.....	.....	.....	.....	.....
Indians	.....	.....	.....	.....	.....	.....
Totals	90	.....	55	.....	145	.....

Name of seams or pits—No. 3 mine or "Big Showing," open-work; Nos. 4, 5, and 6 mines, underground.

Description of seams, tunnels, levels, shafts, etc., and number of same—No. 3 mine: During the year no stripping or coal operations have been attempted at this mine, same being idle all year. Shay locomotives, shovels, air dump-cars, contractor's outfit, etc., have been moved down to Corbin. No. 4 mine: During the year bulk of coal from this mine has been won from pillar-work on 400 and 500 levels by the caving-retreating system. A comparatively large area of this ground in both levels is now available for retreating; 300 Right workings have been advanced 500 feet, the coal at this point being about 150 feet between containing walls. It is not being operated just now owing to poor business conditions, which also applies to A tunnel. No. 5 mine: Level and counter have been advanced to a point 500 feet from entry, the coal being about 18 feet wide between walls. It also has been abandoned until business conditions improve. Coal at face of this level when stopped showed analysis of 0.75 moisture; 22.75 V.C.; fixed carbon, 69; ash, 7.50 per cent. No. 6 mine: At the elevation 5,315 section the rock tunnel struck coal at 150 feet, where a 12-foot seam of hard coal was found and a level driven north on same for 60 feet; the main tunnel advanced about 25 feet in shales from this point, where coal was again struck; tunnel is now advanced 200 feet in coal. A level to the south has been driven 275 feet and levels now being put off to the north. It is expected the width of seam at this point will be at least 400 feet, and running north about 2 miles with depth unknown. At the elevation 5,390 a road was driven across the seam in coal for 375 feet, the containing walls being well defined. Work to the north has been advanced 500 feet, the bed of coal being blocked out double-stall method and pillars of 210 by 250 feet, pillars between levels and counters being 70 by 120 feet. At the elevation 5,456 section roadway is now being driven across the seam and has advanced 150 feet, when hanging-wall has been reached. It is proposed to block out this upper section for retreating which will be worked on the "top-slicing method" to prevent surface material from mixing with coal. This mine can now quickly be producing 500 tons a day if necessary.

Description and length of tramway, plant, etc.—Nos. 3 and 4 mines as per previous report. No. 5 mine: Tipple shedding has been completed. No. 6 mine: Small boiler and hoist to handle timbers to different levels. Timber tramway from railway to top level, 700 feet, laid with 40-lb. steel. Wash-house temporary; three sprays and hand-basins, with change and drying room to take care of fifty men; boiler erected, 600 feet 2-inch line to water-supply, radiators, etc. Small Sirocco fan for development purposes, capacity 10,000 cubic feet a minute, against a 4-inch water-gauge. Loading-chutes from elevation 5,240 to 5,456 to lower coal to railway-track, to be replaced later by retarding conveyor. Tipple and shedding to handle run of mine from loading-chutes to railway-cars. At the main tipple, Corbin, Marcus screen and apron-conveyor have been adjusted to more adequately handle rock and clean coal.

PROSECUTIONS UNDER "COAL-MINES REGULATION ACT."

Date.	Name.	Mine.	Occupation.	Offence charged.	Judgment.
Jan. 18....	Casiso Angelo.....	No. 1, Granby	Miner	For having pipe in his possession in violation of General Rule 91	Fined $5.
Jan. 18....	B. Martinella.....	No. 4, Cumberland	Miner	For refusing to sprag coal.....	Fined $10.
Feby. 1....	John Liddle.....	No. 4, No. 1 slope, Cumberland	Fireboss.....	For not guarding place when blasting	Fined $10.
Feby. 7....	Adam Watson....	No. 5, Wellington Extension	Fireboss.....	For infraction of Special Rule 44	Fined $10 and costs.
April 30....	F. A. Gibbons	No. 3, Extension	Driver.....	For allowing a miner to ill-treat his mule	Fined $10.
April 30....	George Copp	No. 3, Extension	Miner	For ill-treating a mule	Fined $25 and costs.
June 7....	John Donnachie..	No. 1, Granby (Cassidy's)	Fireboss.....	For infringement of Rule 12, C.M.R. Act	Fined $10 and costs.
June 14....	Telephore Janard.	Extension	Labourer.....	For forging a coal miner's certificate of competency	Fined $50.
Oct. 3....	J. Tabacak	No. 2, Coal Creek.	Miner	Failing to sprag undermined coal, contrary to Special Rule 115	Fined $5 and costs.
Oct. 5....	J. Bisoni	No. 1, East, Coal Creek	Miner	Failing to use sprag for undermined coal, contrary to Special Rule 115	Fined $5 and costs.
Oct. 5....	T. Chubra.....	No. 1, East, Coal Creek	Miner	Failing to use sprags for undermined coal, contrary to Special Rule 115	Fined $5 and costs.
Oct. 18....	Harry McGuire...	No. 1, North, Coal Creek	Miner	For having matches in his possession	Fined $5 and costs.
Nov. 21....	Jew Yoy	No. 4, Comox.....	Chinese labourer	For infringement of Rule 9, C.M.R. Act	Fined $10.
Nov. 21....	Andrew J. Alber..	Granby (Cassidy's)	Miner	For infringement of Rule 9, C.M.R. Act	Fined $5.
Nov. 24....	R. Miza.....	No. 5, Comox....	Miner	Having matches and cigarette-papers	Fined $10 and costs.
Nov. 25....	John Farrow	No. 3, East, Michel	Miner	For riding on trip contrary to Special Rule 63	Fined $10 and costs or 30 days.
Nov. 25....	M. Rubos	No. 3, Michel.....	Miner	Failing to sprag undermined coal, contrary to Special Rule 115	Fined $10 and costs or 30 days.
Nov. 25....	T. Tonkin.....	No. 3, Michel.....	Miner	Failing to sprag undermined coal, contrary to Special Rule 115	Fined $10 and costs or 30 days.
Dec. 5...	John Jonas, Jr....	No. 1, Granby	Rope-rider	Having matches in his possession in violation of General Rule 9.....	Fined $10 and costs.

METALLIFEROUS MINES SHIPPING IN 1921.

CASSIAR.

ATLIN MINING DIVISION.

Mine or Group.	Locality.	Owner or Agent.	Address.	Character of Ore.
Maid of Erin	Rainy Hollow	R. W. Wiley	Atlin	Gold, silver, copper.

SKEENA.

SKEENA MINING DIVISION.

Belmont-Surf Inlet	Surf inlet	Belmont-Surf Inlet Mines, Ltd.	Surf Inlet	Gold, silver, copper.
Drum Lummon	Douglas channel	Drum Lummon Mines, Ltd.	Vancouver	Gold, silver, copper.

NASS RIVER MINING DIVISION.

Dolly Varden	Alice arm	Taylor Engineering Co., Ltd.	Vancouver	Silver.
Golskeish	Anyox	H. W. Heidman	Anyox	Gold, silver.
Hidden Creek	Anyox	Granby Cons. M. S. & P. Co.	Anyox	Gold, silver, copper.

PORTLAND CANAL MINING DIVISION.

Premier	Salmon river	Premier Gold Mining Co.	Stewart	Gold, silver.

OMINECA MINING DIVISION.

Corderilla	Kitsalas mountain	Kitsalas Mt. Copper Co., Ltd.	Usk	Gold, silver, copper.
Silver Standard	Hazelton	W. G. Norrie-Lowenthal	New Hazelton	Gold, silver, lead, zinc.

EAST KOOTENAY.

FORT STEELE MINING DIVISION.

North Star	Kimberley	Thompson & McKinney	Kimberley	Silver, lead.
Sullivan	Kimberley	Consolidated M. & S. Co.	Kimberley	Silver, lead, zinc, iron
Victor	Fort Steele	E. Abernethy	Spokane	Gold, silver, lead. [pyrites.

WINDERMERE MINING DIVISION.

Paradise	Toby creek	R. R. Bruce	Invermere	Silver, lead.

WEST KOOTENAY.

AINSWORTH MINING DIVISION.

Bluebell	Riondel	S. S. Fowler	Riondel	Silver, lead.
Florence	Ainsworth	F. R. Wolfle.	Spokane	Silver, lead.
Grant	Ainsworth	Bridge & Kennedy	Ainsworth	Gold, silver, lead.
Highland	Ainsworth	Consolidated M. & S. Co.	Trail	Silver, lead.
Jessie Bluebird	Woodbury creek	Eric Johnson	Kaslo	Gold, silver, lead.
Krao	Ainsworth	W. E. Zwicky	Kaslo	Silver, lead.
Little Mamie	Ainsworth	MacLeod G. & S. Mining Co.	Ainsworth	Gold, silver, lead.
Mohawk	Adamant	J. H. Chisholm	Kaslo	Gold, silver, lead.
Ruth	Ainsworth	James Anderson	Kaslo	Silver.
Spokane-Trinket	Ainsworth	Jas. McDougall	Ainsworth	Silver, lead.
Skyline	Ainsworth	H. Giegerich	Kaslo	Silver, lead.
Utica	Paddy peak	T. R. French	Kaslo	Silver, lead.
Violet	Woodbury creek	J. Henry	Ainsworth	Silver, lead.
Whitewater	Retallack	W. H. Burgess	Kaslo	Gold, silver, lead, zinc.
Silver Bell	South fork, Kaslo creek	S. H. Green	Kaslo	Silver, lead.

SLOCAN MINING DIVISION.

Mine or Group.	Locality.	Owner or Agent.	Address.	Character of Ore.
Alamo	Alamo	C. Cunningham	Sandon	Silver, lead.
Bosun	New Denver	Rosebery-Surprise Mining Co.	New Denver	Silver, lead, zinc.
Canadian and Adams	Sandon	" "	"	Silver, lead.
Chambers group	Slocan	H. G. Clarke	Sandon	Silver, lead.
Freddie Lee	Sandon	J. H. Tatterie	Sandon	Silver, lead.
Idaho	Sandon	C. Cunningham	Sandon	Silver, lead.
Ivanhoe	Sandon	Rosebery-Surprise Mining Co.	New Denver	Silver, lead.
Last Chance	Sandon	Robt. Cunning	Sandon	Silver, lead.
Mollie Hughes	New Denver	H. Clever	New Denver	Gold, silver, lead.
Queen Bess	Sandon	C. Cunningham	Sandon	Silver, lead.
Rambler	Three Forks	W. A. Cameron	Three Forks	Silver, lead, zinc.
Redress	Sandon	H. T. Twigg	Enderby	Silver, lead.
Richmond	Sandon	C. Cunningham	Sandon	Silver, lead.
Silversmith	Sandon	John B. White	Sandon	Silver, lead, zinc.
Sovereign	Sandon	C. Cunningham	Sandon	Silver, lead.
Standard	Silverton	W. H. North	Silverton	Lead, zinc.
Surprise	Sandon	J. P. McFadden	Sandon	Gold, silver, lead.
Majestic	Sandon	Gus Fandrey	Sandon	Gold, silver, lead, zinc.
Van-Roi	Silverton	C. Cunningham	Sandon	Silver, lead.
Wonderful	Sandon	C. Cunningham	Sandon	Silver, lead.
Gem	Carpenter creek	M. J. Byrne	Sandon	Silver, lead.

SLOCAN CITY MINING DIVISION.

L. T.	Springer creek	D. B. O'Neail	Slocan	Silver.
Black Prince	Springer creek	C. E. Cartwright	Vancouver	Silver, lead.
Ottawa	Slocan	L. H. Biggar	Slocan	Silver.

NELSON AND ARROW LAKE MINING DIVISION.

Champion	Park Siding	S. N. Ross	Fruitvale	Gold, silver.
Gold Hill	49 creek	Geo. Gormley	Nelson	Gold, silver, copper.
Millie Mack	Burton (Arrow Lake)	H. E. Forster	Wilmer	Gold, silver, lead.
Nugget	Sheep creek	Harold Lakes	Salmo	Gold.

TRAIL CREEK MINING DIVISION.

Centre Star	Rossland	F. S. Peters	Rossland	Gold, silver, copper.
I.X.L.	Rossland	R. B. Shelledy	Rossland	Gold, silver, copper.
Le Roi No. 2	Rossland	D. Lay	Rossland	Gold, silver, copper.
Velvet	Rossland	J. W. Gregory	Rossland	Gold, silver, copper.

REVELSTOKE, TROUT LAKE, AND LARDEAU MINING DIVISIONS.

Ferguson Mines	Trout lake	James Anderson	Kaslo	Gold, silver, lead.

BOUNDARY.

GREENWOOD MINING DIVISION.

Castor Frac	Beaverdell	J. Sutherland	Greenwood	Silver.
Kokomo	Beaverdell	J. M. Barrett	Beaverdell	Gold.
Providence	Greenwood	Wm. Madden	Greenwood	Gold, silver, lead.
Sally	Beaverdell	E. A. Morley	Penticton	Silver, lead.
Wellington	Wallace mountain	J. Sutherland	Beaverdell	Silver, lead.

GRAND FORKS MINING DIVISION.

Emma	Eholt	Consolidated M. & S. Co.	Trail	Gold, silver, copper.
Rock Candy	Grand Forks	Consolidated M. & S. Co.	Trail	Fluorspar.

OSOYOOS MINING DIVISION.

Horn Silver	Similkameen	E. W. Condit	Similkameen	Gold, silver.

LILLOOET AND CLINTON MINING DIVISIONS.

Mine or Group.	Locality.	Owner or Agent.	Address.	Character of Ore.
Pioneer	Cadwallader creek	C. L. Copp	Lorne Mine	Gold.

SOUTH COAST.

VANCOUVER MINING DIVISION.

Britannia	Howe sound	W. S. Browning	Britannia Beach	Gold, silver, copper.

NANAIMO MINING DIVISION.

Good Hope	Texada island	H. Wolburn	Vananda	Iron.
Marjorie	Texada island	J. McConville	Texada island	Gold.
Venus	Lasqueti island	A. N. Skill	Vancouver	Gold, silver, copper.

LIST OF CROWN GRANTED MINERAL CLAIMS.

CROWN GRANTS ISSUED IN 1921.

CASSIAR.

Claim.	Division.	Grantee.	Lot.	Acres.	Date.
Buttercup	Atlin	Maurice Egerton	3282	15.96	Oct. 31
Calder	"	Horace McNaughton Fraser	1276	39.35	July 30
Daffodil	"	Maurice Egerton	1279	49.98	Oct. 31
Daisy	"	Horace McNaughton Fraser	1278	24.69	July 30
Merry	"	"	1275	23.96	July 30
Pansy	"	Robert Webster	1280	37.14	Oct. 31
Primrose	"	Horace McNaughton Fraser	1277	43.34	July 30
Rose	"	"	3281	14.44	July 30
Big Lode	Nass River	Charles Munroe and Abbotsford Lumber, Mining & Development Co., Ltd.	4215	4.69	April 25
Blueberry	"	Ditto	4217	39.92	April 25
Copper Cliff No. 2	"	Arne Davidson	3808	38.05	Dec. 20
Copper Cliff No. 3	"	Joseph Wells	3798	40.26	Dec. 21
Copper Cliff No. 3	"	George Alexander Young, Joseph Well, and Arne Davidson	3806	45.74	Mar. 4
Copper Cliff No. 1	"	George Alexander Young, Joseph Well, and Arne Davidson	3807	42.40	Mar. 4
Copper Crest	"	Bernard Livingstone Johnson	3346	51.57	Mar. 15
Dan Patch	"	Richard B. Linzey *et al*	3825	43.69	Sept. 10
Gray Copper	"	Charles Munroe and Abbotsford Lumber, Mining & Development Co., Ltd.	4214	43.57	April 25
Iron Cap	"	Ditto	4216	51.65	April 25
Lue Dillon	"	Richard B. Linzey *et al*	3827	26.21	Sept. 10
Maude S	"	"	3828	29.38	Sept. 10
Nancy Hanks	"	"	3826	44.15	Sept. 10
Nome Fraction	"	Hans Pedersen	3519	21.58	Mar. 16
North Star Fraction	"	Edward Lewin	4211	16.88	July 11
Ruby	"	"	4210	27.94	July 12
Yellow Cedar	"	Charles Munroe and Abbotsford Lumber, Mining & Development Co., Ltd.	4213	43.66	April 25
Alta	Omineca	Hinterland Resources, Limited	9081	8.46	Aug. 20
Bison	"	Archibald T. Harrer	6315 R. 5	34.97	Nov. 24
Calgary Fraction	"	Robert J. Miller	9088	16.56	Oct. 27
Edmonton	"	Hinterland Resources, Limited	9082	46.61	Sept. 7
High Level	"	"	9084	28.43	Aug. 20
Homestake	"	The Cats Mining Co., Ltd. (N.P.L.)	3309	42.07	July 12
Lake View	"	Louis Schorn	6284 R. 5	51.26	June 9
Last Chance	"	Hinterland Resources, Limited	9080	13.66	Aug. 20
Low Level	"	"	9083	20.28	Aug. 20
Mammoth	"	The Cats Mining Co., Ltd. (N.P.L.)	3307	23.21	July 12
North Star	"	Robert J. Miller	9090	51.65	Oct. 26
Peace River	"	"	9079	49.33	Oct. 26
Selwyn	"	"	9078	46.52	Oct. 26
Tiger	"	The Cats Mining Co., Ltd. (N.P.L.)	3308	36.24	July 12
Una	"	Robert J. Miller	9089	36.50	Oct. 26
Argentite	Portland Canal	Silver Crest Mines, Ltd. (N.P.L.)	4153	49.35	June 8
Ax Fraction	"	Bush Mines, Ltd. (N.P.L.)	3852	6.55	Feb. 3
Bell	"	"	3842	40.47	June 9
Bell No. 2	"	"	3849	40.24	Feb. 3
Bush Fraction	"	B.C. Silver Mines, Ltd	4147	33.11	June 10
Cascade Forks No. 1	"	William Bunting	3603	46.90	April 25
Cascade Forks No. 6	"	"	3608	38.70	April 25
Cascade Forks No. 2	"	Charles Bunting	3604	28.15	April 25
Cascade Forks No. 3	"	"	3605	31.50	April 25
Cascade Forks No. 4	"	"	3606	20.00	April 25
Cascade Forks No. 5	"	"	3607	30.30	April 25
Cerargerite	"	Silver Crest Mines, Ltd. (N.P.L.)	4160	43.63	June 8
Climax	"	Bush Mines, Ltd. (N.P.L.)	3841	50.97	Feb. 3
Dixie	"	B.C. Silver Mines, Ltd. (N.P.L.)	4135	8.81	Mar. 10
Forks	"	David O'Leary	3610	38.80	April 25
Good Hope	"	Albert B. Armstrong and William Reid Tooth	4037	29.57	Dec. 6
Grandview	"	B.C. Silver Mines, Ltd. (N.P.L.)	4142	29.07	June 10
Gun Fraction	"	Bush Mines, Ltd. (N.P.L.)	4016	20.45	Feb. 3
Halton	"	B.C. Silver Mines, Ltd. (N.P.L.)	4146	33.31	June 10
Hessite	"	Silver Crest Mines, Ltd. (N.P.L.)	4159	51.65	June 8
Hooligan	"	David O'Leary	4019	51.52	Mar. 7
Humboldt Fraction	"	B.C. Silver Mines, Ltd. (N.P.L.)	4137	32.66	Mar. 7
Humboldt No. 2 Fraction	"	" "	4136	17.96	Mar. 7
Lesley	"	Bush Mines, Ltd. (N.P.L.)	3839	51.65	June 9
Lesley No. 2	"	" "	3843	50.57	Feb. 3
Lesley No. 3	"	" "	3845	41.22	Feb. 3
Lesley No. 4	"	" "	3844	28.49	June 9
Lesley No. 5	"	" "	3846	39.20	Feb. 3
Lesley No. 6	"	" "	3847	51.44	June 9
Lesley Fraction	"	" "	3848	31.49	June 9
Lesley M	"	" "	3838	51.65	Feb. 3
Limit	"	" "	3840	51.65	June 9
Mahood	"	" "	3850	31.91	June 9
Millan Dollar Fraction	"	Forty-nine Mining Co., Ltd. (N.P.L.)	4034	17.67	Feb. 15

CASSIAR—*Continued.*

Claim.	Division.	Grantee.	Lot.	Acre.	Date.
Mountain	Portland Canal	B.C. Silver Mines, Ltd. (N.P.L.)	4141	51.65	June 10
Native	"	Silver Crest Mines, Ltd. (N.P.L.)	4158	45.59	June 8
Neill Fraction	"	B.C. Silver Mines, Ltd. (N.P.L.)	4148	35.74	June 10
Oakville Fraction	"	Charles Henry Lake	4021	11.89	Mar. 7
Oakville No. 2 Fraction	"	"	4022	19.92	Mar. 7
Oakwood	"	"	4020	7.34	Mar. 7
Occidental Fraction	"	Forty-nine Mining Co., Ltd. (N.P.L.)	4035	2.53	May 18
Polybacite	"	Silver Crest Mines, Ltd. (N.P.L.)	4154	51.65	June 8
Proustite	"	" "	4156	22.48	June 8
Pyrargyrite	"	" "	4155	44.77	June 8
Rincon	"	B.C. Silver Mines, Ltd. (N.P.L.)	4143	26.40	June 10
September Fraction	"	Silver Crest Mines, Ltd. (N.P.L.)	4163	38.50	June 8
Silver Crest Fraction	"	" "	4162	29.79	June 8
Simcoe	"	B.C. Silver Mines, Ltd. (N.P.L.)	4145	24.58	June 10
Stephanite	"	Silver Crest Mines, Ltd. (N.P.L.)	4157	51.65	June 8
Stromeyrite	"	" "	4161	43.30	June 8
Ten Fraction	"	Bush Mines, Ltd. (N.P.L.)	3851	40.62	June 9
Texada	"	B.C. Silver Mines, Ltd. (N.P.L.)	4133	22.30	Mar. 7
U & I	"	" "	4144	50.27	June 10
Wood Fraction	"	Premier Gold Mining Co., Ltd.	3609	5.60	April 25
Eagle	Skeena	Joseph Dawson	6513	42.54	Sept. 7
Keith Fraction	"	James Falkner	2236 R. 4	25.06	Jan. 14

EAST KOOTENAY.

Arras Fraction	Fort Steele	The Consolidated Mining & Smelting Co. of Canada, Ltd.	6725	50.40	May 4
Betty Fraction	"	" "	12526	0.17	April 25
Byng	"	" "	7348	51.39	April 1
Cram	"	" "	5931	49.54	April 1
Creek	"	" "	12936	51.65	Dec. 9
Daughter	"	" "	12943	51.65	Dec. 9
Douglass	"	" "	7325	51.65	April 2
Eileen Fraction	"	" "	9386	43.27	Mar. 30
Elkhorn	"	" "	2991	48.60	Feb. 7
Enough Fraction	"	" "	12928	42.06	Mar. 30
Foch	"	" "	7345	51.14	Mar. 31
Hagia	"	" "	12938	51.65	Dec. 9
Haig	"	" "	7349	51.55	April 5
Hiram	"	" "	12944	49.33	Dec. 9
Hoogie	"	" "	6715	45.45	April 5
Hored	"	" "	12933	51.07	Dec. 9
Irene Fraction	"	" "	9387	35.10	Mar. 30
Jessie Fraction	"	" "	6727	46.37	April 1
Joshua	"	" "	12941	51.65	Dec. 9
J. Y. A.	"	" "	12925	46.45	Mar. 30
Lake Fraction	"	" "	7342	45.41	Mar. 31
Lille	"	" "	5933	51.04	April 5
Loore	"	" "	5934	51.48	April 5
Major	"	" "	12942	51.65	Dec. 9
Menin Fraction	"	" "	6724	50.02	April 1
Midas	"	" "	5456	44.04	Feb. 7
Miller	"	" "	7343	51.65	April 31
Mosquito Fraction	"	" "	12926	44.66	Mar. 30
Mildred	"	" "	7344	51.65	April 31
Mt. Mariah	"	" "	12930	49.19	Dec. 15
Norman	"	" "	7347	51.37	April 1
Pedro	"	Norman William Burdett	2313	51.65	Mar. 2
Pershing Fraction	"	The Consolidated Mining & Smelting Co. of Canada, Ltd.	9875	17.06	Nov. 29
Petain	"	" "	7346	51.65	April 1
Plummer Fraction	"	" "	9876	29.71	April 30
Red Devil	"	" "	7341	51.65	Mar. 30
Rex	"	" "	12935	35.31	Dec. 9
Roaring Bill	"	" "	7328	51.65	April 2
Robert C. Fraction	"	" "	3710	0.46	April 25
Rossland	"	" "	12927	46.35	Mar. 30
Roulers Fraction	"	" "	6717	39.29	April 25
Ruby Fraction	"	" "	12934	31.93	Dec. 9
Sarnia	"	" "	12937	51.65	Dec. 9
Seaton Fraction	"	" "	12527	17.40	Mar. 30
Sirus	"	" "	12931	50.79	Dec. 9
Sojourner	"	" "	12939	51.65	Dec. 9
Solomon	"	" "	12940	51.65	Dec. 9
Summit	"	" "	12929	51.65	Mar. 30
Thor	"	" "	12932	44.43	Dec. 9
Vimy	"	" "	6716	51.65	April 5
Watau Fraction	"	" "	6723	23.00	April 25
Ypres	"	" "	5932	48.24	April 1
Silver Moon	Windermere	Burton S. Fox	11708	51.65	July 8
Excelsior	Golden	Keith Campbell Macgirvan	1107	51.65	Nov. 3
Favorite	"	James J. McConnell	1116	49.90	Nov. 14
Timbasket	"	Matthew Henry Robertson Moodie	1975	37.30	Mar. 17
Whistler Fraction	"	John J. McCabe	1117	10.85	Nov. 14

WEST KOOTENAY.

Claim.	Division.	Grantee.	Lot.	Acres.	Date.
Ada Fraction	Ainsworth	Philip Thomas Corrigan	10064	33.80	Jan. 31
Albatross Fraction	"	"	10063	36.40	Jan. 31
Morning Star No. 2	"	"	4885	48.89	Mar. 8
White Elephant	"	George C. Read	3159	43.18	Mar. 22
Winona Fraction	"	Philip Thomas Corrigan	10061	44.10	Jan. 31
Benson Fraction	Nelson	Agnes Billings and Percy Ferdinand Horton	12671	7.65	Sept. 3
Canyon	"	" "	12670	47.60	Aug. 18
Carbonate Hill	"	Agnes Billings	12677	47.28	Sept. 3
Easter	"	Percy Ferdinand Horton and Agnes Billings	12668	41.63	Aug. 18
Golden	"	P. F. Horton and Sidney N. Ross	12676	51.65	Aug. 18
Good Hope	"	William Joseph Williams	4382	33.88	Oct. 28
No. 1 Fraction, Good Hope Fraction	"	"	4383	15.90	Oct. 28
Homestead Fraction	"	Percy Ferdinand Horton	12678	7.05	Aug. 18
H. B.	"	Percy Ferdinand Horton and John Adolph Benson	12672	42.08	Sept. 3
Leadville	"	" "	12673	28.05	Sept. 3
Lilly B. Fraction	"	Percy Ferdinand Horton	12669	32.02	Sept. 3
Mother Lode Fraction	"	Agnes Billings	12674	0.79	Sept. 3
Republic	"	George Thomas Gormley	3208	25.20	Dec. 15
Ross Fraction	"	John Adolph Benson	12675	45.03	Sept. 3
Stanley	"	Edward Francis Phillips	4384	16.72	Oct. 27
Dayton	Slocan	Matthew Peace Reid	2419	41.53	Jan. 8
Accidental	Slocan City	Robert G. McLeod	4258	31.81	Mar. 10
F. L. C.	"	Grace McLeod	4262	16.36	Mar. 10
Get there Eli	"	"	4261	12.63	Mar. 10
Reno	"	Robert G. McLeod	4259	30.84	Mar. 10
V. & M.	"	James David Weghtman	4260	20.93	April 5
Agnes B. Fraction	Trail Creek	Frederick Samuel Lee	1704	27.77	Feb. 8
Almaden	"	John Lindsay Maclachlan	2678	15.48	Oct. 20
Belcher	"	Edward Nugent	1951	33.24	Dec. 16
Bluebell	"	Rossland Velvet Mines, Ltd. (N.P.L.)	5206	50.48	May 26
Charlston	"	Robert E. Crerar	975	12.62	Feb. 2
Douglas	"	John S. Godfrey	2865	39.23	Oct. 20
Florence	"	Alan Bruce Ritchie	1354	51.21	Oct. 20
Freeburn	"	William Munroe Archibald	957	25.90	Oct. 20
G. B. Architect Fraction	"	Frederick Samuel Peters	1707	27.54	Feb. 8
Golden Rule	"	Oswald Bisson and Martin Dalby	12278	51.59	Jan. 31
Golden Terra	"	Lawrence William Oughtred	1338	5.78	Oct. 20
Good Hope	"	Melbourne McKim O'Brien	4005	49.27	Mar. 8
Grey Eagle	"	Rowland Bell Shelledy	3713	45.05	Feb. 8
Jumbo No. 3	"	Rupert Malcolm Macaulay	3218	2.81	Oct. 26
Jumbo No. 3 Fraction	"	"	3030	2.40	Oct. 20
La Belle	"	Melbourne McKim O'Brien	729	9.96	Mar. 8
Latest out	"	William James Garbutt	959	32.00	Oct. 20
Maple Leaf	"	Ella Stoddart	12867	29.03	Nov. 29
Mary D.	"	William James Garbutt	1514	38.82	Oct. 20
Mispickel	"	William Munroe Archibald	1761	34.27	Oct. 20
Palo Alto	"	John Lindsay Maclachlan	950	51.44	Oct. 20
Poor Property	"	Selwyn Gwillym Blaylock	1273	50.45	Oct. 25
Rainy Day	"	Robert E. Crerar	1339	45.75	Feb. 21
Tramway	"	Alan Bruce Ritchie	1826	22.71	Oct. 20
Venus	"	Selwyn Gwillym Blaylock	1213	30.35	Oct. 25
Violet	"	Rowland Bell Shelledy	3714	50.98	Feb. 8
Vulcan Fraction	"	James Buchanan	3397	16.93	Nov. 17
Canmore	Lardeau	Emma Theresia Blockberger	5677	34.10	Oct. 13
Big Hope Fraction	Revelstoke	Shadwick Lewis Williams	8250	19.06	July 13

BOUNDARY.

Arlington	Grand Forks	Henry P. Jackson	2596	44.65	Feb. 21
Hastings	"	Fred Rutherford and Charles Schwartzenhauer	2053	51.65	Aug. 15
Hesperus Fraction	"	Johnson Wilmont Clark	3057	27.64	Sept. 1
May	"	Joseph J. Bassett	2217 S.	47.75	July 30
Ah There	Greenwood	Colin McRae	1960	17.75	Mar. 8
Big Ledge	"	Paul Nelson	826	51.65	July 5
Bonnie Belle	"	Ola Lofstad	880	51.18	Jan. 7
Buckhorn	"	James Napier Paton	1107	51.65	Feb. 8
C. S. & H.	"	Andrew Jackson	833	40.41	July 5
Crescent No. 2	"	Agnes Forshaw	1257	41.02	May 31
Crown Point	"	James Kerr	2448	34.71	Dec. 9
Deadwood	"	Colin McRae	1962	48.86	Mar. 8
Electric	"	Leo Ernest Brawders	1575	30.02	Jan. 7
Ethiopia	"	Jennie Duhamel	932	42.38	Jan. 7
Maple Leaf Fraction	"	George Alfred Bryan	2040	34.91	Mar. 2
O. B.	"	Ola Lofstad	828	48.03	Oct. 13
Roderick Dhu	"	Lewis Bryant	598	51.65	Jan. 7
S. F. Fraction	"	Frederick Johnson	832	40.35	Aug. 15
Shoo Fly	"	James Grant	1547	46.75	June 14
Spokane	"	Robert Lee	1011	31.22	May 19
Sunset	"	John Allan Fraser	2068	49.76	Mar. 9
Syd. M. Johnson	"	Thomas Branagan	1961	49.29	Mar. 16
Tintic	"	"	1461	14.37	Feb. 8
Victoria	"	James Kerr	218	20.60	April 12
Warwick Fraction	"	Elizabeth Frances Lee	616 S.	46.25	Feb. 7
White Rock	Kamloops	William Wallace Elder	4023	44.71	Jan. 27

BOUNDARY—*Continued.*

Claim.	Division.	Grantee.	Lot.	Acres.	Date.
C. P. Fraction	Lillooet	Index Molybdenite Mining Co., Ltd. (N.P.L.)	1309	29.62	Nov. 22
Globe	"	" "	1307	51.65	Nov. 22
Index	"	" "	1306	51.65	Nov. 22
Last Chance	"	" "	1310	50.07	Nov. 22
Legal Tender	"	" "	5074	51.65	Nov. 22
Lucky Jack Fraction	"	" "	5076	33.39	Dec. 13
Sunset	"	Peter Ferguson	3045	47.19	Nov. 16
Titanic Fraction	"	Andrew Ferguson	3053	9.15	Nov. 16
August 12	Similkameen	Canada Copper Corporation, Ltd. (N.P.L.)	2298 S.	51.65	Sept. 8
August 13	"	" "	2299 S.	26.00	Sept. 8
August 14	"	" "	2300 S.	19.60	Sept. 8
Benard	"	" "	2007 S.	47.70	Jan. 19
Copper Cent No. 1	"	" "	2304 S.	9.60	Sept. 8
First Chance No. 1	"	" "	2302 S.	35.20	Oct. 3
Good Cheer	"	" "	2002 S.	47.60	Jan. 19
Irish Mag	"	" "	2010 S.	38.20	Jan. 19
Last Chance No. 1	"	" "	2303 S.	46.70	Sept. 8
Lemon No. 2	"	" "	2006 S.	51.40	Sept. 8
Lemon No. 5	"	" "	374 S.	48.80	Sept. 8
Lemon No. 7	"	" "	2008 S.	42.90	Sept. 8
Lemon No. 9	"	" "	2011 S.	44.70	Sept. 8
Lemon No. 11	"	" "	2003 S.	44.90	Sept. 8
Margaret No. 1 Fraction	"	" "	2310 S.	9.50	Sept. 8
Moore No. 1	"	" "	2301 S.	37.50	Sept. 8
Tessie	"	" "	2009 S.	42.60	Jan. 19
Upsilon	"	" "	2013 S.	4.40	Jan. 19
Zapata Fraction	"	" "	2572 S.	23.50	Sept. 8
Silver Bell	Vernon	Amelia Bell	4329	51.65	Mar. 30
Anita	Clinton	Ephraim Coulter Davison	3266	34.60	Dec. 13
Margaret	"	"	3267	26.50	Dec. 2
I. I. C. Fraction	Nicola	Samuel Ryder	4208	33.32	Jan. 31
Lucky Jim	"	"	4209	49.09	Jan. 31
Sunrise Fraction	"	"	3256	42.98	Jan. 31

VANCOUVER ISLAND AND COAST.

Blue Bell	Nanaimo	Andrew Dixon	258 R. 1	51.20	Dec. 13
Empress	"	Alexander Smith	279	44.90	Aug. 16
Ex Ray	"	Harvey W. Wells	61	39.20	May 6
Ex Ray No. 2	"	"	62	43.79	May 6
Ex Ray No. 3	"	"	63	33.61	May 6
Humming Bird	"	David George Kennedy	4815 A.	49.04	Feb. 16
May Flower	"	"	4816 A.	51.65	Feb. 10
Nigger Baby No. 1	"	Harvey W. Wells	64	38.02	May 9
Portage	"	Andrew Dixon	259 R. 1	51.65	Dec. 13
Double Standard	Clayoquot	William Wilson	1249	49.99	Jan. 26
Eight	"	John David McLeod	1647	51.65	July 13
Ex	"	"	1644	48.04	July 13
Ivenhoe	"	William Wilson	1250	38.28	Jan. 26
Sechart	"	Ellen Oliver Mansfield	Sect. 3	20.66	Oct. 18
Ten	"	John David McLeod	1645	47.86	July 13
You	"	"	1646	49.73	July 12
By Joe Fraction	Quatsino	Ole Anderson Sherberg	1552	0.81	Oct. 4
Dasher Fraction	"	Albert Frederick Arnold and Andrew Anlie Gibbens	1549	10.43	Dec. 8
Independent	"	Maud Mary Arnold and Harry George Adams	1550	51.65	Dec. 8
Independent No. 1	"	Albert Frederick Arnold and Mary Smith Gibbens	1551	28.92	Dec. 8
Owl	"	Edward Leo Sullivan	1585	38.61	July 4
Snowbird No. 1	"	"	1587	42.72	July 4
Snowbird No. 2	"	Louise Evenson	1588	50.80	July 4
Snowbird No. 3	"	Andrew Baker	1586	46.23	July 4
Summit Fraction	"	William James Vaughan, Albert Frederick Arnold, John Kussman, and Ole Anderson Sherberg	1554	10.00	Dec. 13
Giant	Vancouver	Quincy Dunn Chapman	3400 G. 1	38.37	Jan. 24
Hercules	"	"	4879 G. 1	49.09	Jan. 24
Limit Fraction	Alberni	Walter Cecil Keeling, Albert Frederick Arnold, Kathrine de Fehr and Harry George Adams	1553	13.35	Nov. 16
Adaline	Victoria	Gabbro Copper Mines, Ltd. (N.P.L.)	829	51.65	Jan. 11
Ada Fraction	"	Sunloch Mines, Ltd. (N.P.L.)	844	36.39	Mar. 18
Black Hornet	"	Gabbro Copper Mines, Ltd. (N.P.L.)	828	44.62	Jan. 11
Cliff Fraction	"	" "	835	1.69	July 14
Gabbro	"	" "	825	38.18	Jan. 11
Gabbro Fraction	"	" "	826	0.38	Jan. 11
Lucky Bunch	"	" "	833	31.46	Jan. 11
Mud Wasp	"	" "	832	35.12	Jan. 11
Queen Bee	"	" "	831	35.99	Jan. 11
Sombrio	"	Sunloch Mines, Ltd. (N.P.L.)	839	49.76	Mar. 18
Tiger	"	"	838	19.30	Mar. 18
Vulcan No. 1	"	Gabbro Copper Mines, Ltd. (N.P.L.)	819	37.26	Jan. 11
Vulcan No. 2	"	" "	820	3.77	Jan. 11
Vulcan No. 3	"	" "	821	51.63	Jan. 12
Vulcan No. 4	"	" "	822	21.49	Jan. 12
Vulcan No. 5	"	" "	823	16.90	Jan. 13
Vulcan No. 6	"	" "	824	38.75	Jan. 13
Vulcan Fraction	"	" "	834	17.93	Jan. 13
War Eagle	"	" "	830	51.45	Jan. 14
Yellow Jacket	"	" "	827	41.91	Jan. 14

DEPARTMENT OF MINES.

VICTORIA, B.C.

HON. WM. SLOAN, *Minister of Mines.*

R. F. TOLMIE, *Deputy Minister.*

WM. FLEET ROBERTSON, *Provincial Mineralogist and Assayer.*

JAS. MCGREGOR, *Chief Inspector of Mines.*

HENRY DEVLIN, *District Inspector*, Nanaimo.

T. R. JACKSON, *District Inspector*, Nanaimo.

ROBERT STRACHAN, *District Inspector*, Fernie.

JOHN MACDONALD, *District Inspector*, Fernie.

JOHN G. BIGGS, *District Inspector*, Merritt.

THOS. J. SHENTON, *District Inspector*, Prince Rupert.

H. H. JOHNSTONE, *Temporary Inspector*, Nelson.

A. G. LANGLEY, *Resident Engineer*, Revelstoke.

D. E. WHITTAKER, *Provincial Analyst and Assistant Assayer.*

J. D. GALLOWAY, *Resident Engineer*, Hazelton.

W. M. BREWER, *Resident Engineer*, Nanaimo.

GEO. A. CLOTHIER, *Resident Engineer*, Prince Rupert.

P. B. FREELAND, *Resident Engineer*, Grand Forks.

Resident Engineer, Kamloops.

GOLD COMMISSIONERS AND MINING RECORDERS.

Mining Division.	Location of Office.	Gold Commissioner.	Mining Recorder.	Sub-Recorder.
Atlin Mining Division	Atlin	J. A. Fraser	W. G. Paxton	
Sub-office	Telegraph Creek			H. W. Dodd.
"	Haines (U.S.)		(Com. for taking Affidavits)	Risdon M. Odell.
Stikine Mining Division	Telegraph Creek	H. W. Dodd	H. W. Dodd	
Sub-office	Boundary	"	"	John Wynne.
Liard Mining Division	Telegraph Creek	"	"	
Sub-office	Porter			Chas. H. Smith.
"	McDame Creek			Mike Larsen.
"	Fort St. John			F. W. Beatton.
Skeena Mining Division	Prince Rupert	J. H. McMullin	J. H. McMullin	
Sub-office	Alice Arm			Telka Carney.
"	Kitimat			G. L. Anderson.
"	Swanson Bay			S. C. White.
"	Copper City			L. G. Skinner.
"	Terrace			L. H. Kenny.
"	Stewart (Portland Canal)			J. P. Scarlett (Acting).
Nass River	Anyox	J. H. McMullin	J. Conway (Acting).	
Portland Canal M.D.	Stewart	J. H. McMullin (at Prince Rupert)	J. P. Scarlett "	
Bella Coola Mining Div.	Prince Rupert	J. H. McMullin	J. H. McMullin	
Sub-office	Bella Coola			Brynild Brynildsen.
"	Bella Bella			John A. Pauline.
"	Ocean Falls			A. M. Tyson.
Queen Charlotte Min'g D.	Queen Charlotte	J. H. McMullin	John L. Barge	
Sub-office	Jedway			Isaac Thompson.
"	Masset			R. P. Ponder.
"	Lockeport			William Morgan.
Omineca Mining Division	Smithers	Stephen H. Hoskins	Jas. E. Kirby	
Sub-office	Fort Grahame			T. A. Kerry.
"	Fort St. James			Alex. C. Murray.
"	Manson Creek			W. B. Steele.
"	Telkwa			T. J. Thorp.
"	Fort St. John			F. W. Beatton.

GOLD COMMISSIONERS AND MINING RECORDERS—*Continued.*

Mining Division.	Location of Office.	Gold Commissioner.	Mining Recorder.	Sub-Recorder.
Omineca M.D.—*Con.*				
Sub-office	Copper City			L. G. Skinner.
"	Terrace			L. H. Kenny.
"	Fort Fraser			Fred Fraser.
"	Junction Finlay &	Parsnip rivers		A. T. Sherwood.
"	Pacific			T. H. McCubbin.
"	Hazelton			Sperry Cline.
"	Burns Lake			L. Mulvaney.
"	Houston			W. J. Lutley.
"	Usk			Jas. L. Bethurum.
Peace River Mining Div.	Fort St. John	S. H. Hoskins	F. W. Beatton	
Sub-office	Hudson Hope	(at Hazelton)		F. F. Monteith.
"	Pouce Coupe			J. D. Moore.
Cariboo Mining Division	Barkerville	L. A. Dodd		
Sub-office	Quesnel	"		E. C. Lunn.
"	Fort George	"		T. W. Herne.
"	McBride	"		M. Gorman.
Quesnel Mining Division	150-Mile House	L. A. Dodd	R. M. McGusty	R. M. McGusty.
Sub-office	Quesnel	(at Barkerville)		E. C. Lunn.
"	Quesnel Forks			Wm. Lowden.
"	Barkerville			L. A. Dodd.
Clinton Mining Division	Clinton	Geo. Milburn		
Lillooet Mining Division	Lillooet	John Dunlop	John Dunlop	
Kamloops Mining Division	Kamloops	E. Fisher	L. S. Brown	L. J. Price.
Sub-office	Chu Chua			George Fennell.
"	Vavenby			Hyde Finley.
"	Albas			C. O. Sjouquist.
Ashcroft Mining Division	Ashcroft	E. Fisher (at Kam.)	J. S. Alexander	
Sub-office	Lytton			Thos. Somerville.
Nicola Mining Division	Merritt	E. Fisher (at Kam.)	J. A. Murchison	
Yale Mining Division	Yale	" "	H. Beech	
Sub-office	Hope	" "		Wm. Greenwood.
Similkameen Mining Div.	Princeton	Hugh Hunter	Hugh Hunter	
Sub-office	Hedley			Jas. Clarke.
Vernon Mining Division	Vernon	L. Norris	M. S. Morrell	
Greenwood Mining Div.	Greenwood	W. R. Dewdney	W. R. Dewdney	
Sub-office	Vernon			M. S. Morrell.
"	Rock Creek			Owen Wheeler.
"	Beaverdell			E. F. Ketchum.
Grand Forks Min. Div.	Grand Forks	S. R. Almond	S. R. Almond	
Osoyoos Mining Division	Oliver	J. R. Brown		
Sub-office	Olalla			R. W. Northey.
"	Hedley			Jas. Clarke.
Golden Mining Division	Golden	John Bulman	H. C. Moore	
Windermere Mining Div.	Wilmer	" (at Golden)	E. M. Sandilands	
Fort Steele Mining Div.	Cranbrook	N. S. A. Wallinger.		
Sub-office	Steele			Joseph Walsh.
"	Fernie			R. J. Stenson.
"	Moyie			W. H. Laird.
"				
Ainsworth Mining Div	Kaslo	Ronald Hewat.	A. McQueen	A. W. Anderson.

Gold Commissioners and Mining Recorders—*Continued.*

Mining Division.	Location of Office.	Gold Commissioner.	Mining Recorder.	Sub-Recorder.
Ainsworth M.D.—*Con.*				
Sub-office	Howser			W. Simpson.
"	Trout Lake			Oscar Jacobson.
"	Crawford Bay			Thos. W. Lytle.
"	Poplar			Arthur G. Johnston.
Slocan Mining Division	New Denver	Ronald Hewat	Angus McInnes	
Sub-office	Sandon	(at Kaslo)		W. J. Parham.
Slocan City Mining Div.	Slocan	Ronald Hewat	Thos. McNeish	
Trout Lake Mining Div.	Trout Lake	"	Oscar Jacobson	
Nelson Mining Division	Nelson	J. Cartmel	J. Cartmel	
Sub-office	Creston			R. Lamont.
"	Ymir			Wm. Dowling.
"	Sheep Creek			Geo. Leece.
"	Salmo			M. C. Donaldson.
Arrow Lake Min. Division	Nakusp	J. Cartmel	Walter Scott	
Sub-office	Vernon	(at Nelson)		M. S. Morrell.
Revelstoke Mining Div.	Revelstoke	A. Johnson	J. Lee	Newton R. Brown.
Lardeau Mining Division	Beaton	" (at Revelstoke)	Ernest Roberts	
Trail Creek Mining Div.	Rossland	H. R. Townsend		
Nanaimo Mining Division	Nanaimo	S. McB. Smith	S. McB. Smith	
Sub-office	Ladysmith			John Stewart.
"	Alert Bay			Ernest H. Robinson
"	Vananda			Leonard Raper.
"	Quathiaski Cove			S. Marshall.
"	Granite Bay			Henry Twidle.
"	Campbell River			T. W. Hanson.
Alberni Mining Division	Alberni	A. G. Freeze	A. G. Freeze	
Clayoquot Mining Division	Clayoquot	" (at Alberni)	W. T. Dawley	
Quatsino Mining Division	Quatsino	" "	Ed. Evensen	
Victoria Mining Division	Victoria	Herbert Stanton	Herbert Stanton	
New Westminster Min. D.	New Westminster	F. C. Campbell	I. Wintemute	
Sub-office	Harrison Lake			L. A. Agassiz.
"	Chilliwack			J. Pelly.
Vancouver Mining Div.	Vancouver	John Mahony	A. P. Grant	

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